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HWLAT50	2577	840753	AC063942	13018	1-383 545-896 3000-3398 3908-5041 5919-6395 6849-7126 7676-7856 7948-8007 9170-14719
HWLAT50	2577	840753	AC069214	13019	1-477
HWLBO67	2578	834315	AC011739	13020	1-517
HWLBO67	2578	834315	AC011739	13021	1-586 3120-3867 4726-4866 6044-6395 6686-7156 11614-12016 18205-18501
HWLBO67	2578	834315	AC011739	13022	1-202
HWLJN08	2582	800626	AL133410	13023	1-488 901-1287 1603-1747 1834-2020 2023-2430
HWLJN08	2582	800626	AL133410	13024	1-79 182-256 607-1033 1123-1301 1499-1551 1629-1745 1845-2373
HWLJN08	2582	800626	AL133410	13025	1-317
HWLRE03	2583	831198	AL137127	13026	1-1312 1694-1887 2193-2303 3471-3710 4156-4443 5038-5161 5278-5407 5941-6584 7241-7367 8276-8367 8643-8727 8884-8972 12156-12269 12380-12542 13269-13380 13916-14061 14441-14518 14846-15027 17451-17589 18535-18807 19429-19512 19996-20578 21826-21915 22456-22588 22670-22898 23235-23564 24082-24203

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					24967-25164 25619-25795 26190-26291 29131-29321 30128-30350 31178-31292 32281-32431 32835-32963 34408-34604 34727-35204 35213-35555 37452-37817 37970-39081 39436-39934 40255-40608 40662-41132 42203-42572 43008-43552 43569-43940 44108-44602
HWLRE03	2583	831198	AL137127	13027	1-535 1104-1316 2656-3225 4701-4928 5419-5827 6327-6571 7412-7575
HWLRE03	2583	831198	AL137127	13028	1-795 1092-1656
HWTAM38	2584	602274	AL022067	13029	1-387 545-678 2026-2359 3509-3960 4010-4450 4530-4983 5870-6310 9032-10350 10759-10891 11299-14328
HWTAM38	2584	602274	AL358952	13030	1-387 545-678 2026-2359 3509-3960 4010-4450 4530-4983 5870-6310 9032-10350 10759-10891 11299-14328
HWTAM38	2584	602274	AL358952	13031	1-1374
HWTAW58	2585	793424	AP001788	13032	1-2438 2985-3122 3292-3331
HWTBB42	2586	603089	AC004985	13033	1-3368 5233-5368 5704-6290 6611-6907 7462-8059 8235-8791 9202-10273 11514-11585
HWTBB42	2586	603089	AC004985	13034	1-281

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					521-1115
HWTBC75	2587	855978	AC004148	13035	1-143
					475-660
					1809-2483
					2821-3022
					3806-3998
					4221-4620
					4869-4922
					5992-6387
					7052-7155
					7158-7479
					8079-8629
					8782-8957
					9190-13052
					13185-13567
					13674-13804
					14077-15084
					15153-15280
					15368-15653
					16284-16487
					16795-17209
					17560-17939
					17941-18053
					18172-18605
					21583-21675
					22758-22902
					23276-23551
					25577-25753
					26239-26344
					27467-27902
					30042-30160
					30791-30942
					31749-31937
					33498-33672
					33901-34149
					35192-35808
					35836-36088
					36123-36451
					37394-37483
					40700-40833
					40959-41042
					42608-42702
					42715-42870
					43205-43377
					45707-46983
					47985-48160
					48714-49177
					49458-50604
					51183-51797
					52218-52991
					53428-54181
					54760-54930
					55060-55572
					56432-57573
					57577-58182
					58199-59928
					59984-60233
					60359-60461
					61203-61440
					61565-61660
					62439-62581
					62696-63159

					64815-65163 65529-65854
HWTBC75	2587	855978	AC004148	13036	1-1611
HWTBI25	2588	637736	AC066603	13037	1-695
HWTBI25	2588	637736	AC066603	13038	1-510
HWTBL86	2589	791720	AL034550	13039	1-4073
HYAAC74	2591	762843	AC013276	13040	1-1227
HYAAC74	2591	762843	AC013276	13041	1-635
HYBAQ24	2595	898367	AC018552	13042	1-96 289-617 1256-1542 2572-4992
HYBAQ24	2595	898367	AC018552	13043	1-103 242-356 479-1465 3671-3861
HYBAQ24	2595	898367	AC018552	13044	1-148
HYBBD81	2597	533784	AC015779	13045	1-302 692-1498 2237-2673
HYBBD81	2597	533784	AC013603	13046	1-302 692-1498 2237-2673 5316-5528 6508-7733

[87] **Table 1D:** The polynucleotides or polypeptides, or agonists or antagonists of the present invention can be used in assays to test for one or more biological activities. If these polynucleotides and polypeptides do exhibit activity in a particular assay, it is likely that these molecules may be involved in the diseases associated with the biological activity. Thus, the polynucleotides or polypeptides, or agonists or antagonists could be used to treat the associated disease.

[88] The present invention encompasses methods of preventing, treating, diagnosing, or ameliorating a disease or disorder. In preferred embodiments, the present invention encompasses a method of treating a disease or disorder listed in the "Preferred Indications" column of Table 1D; comprising administering to a patient in which such treatment, prevention, or amelioration is desired a protein, nucleic acid, or antibody of the invention (or fragment or variant thereof) in an amount effective to treat, prevent, diagnose, or ameliorate the disease or disorder. The first and second columns of Table 1D show the "Gene No." and "cDNA Clone ID No.", respectively, indicating certain nucleic acids and proteins (or antibodies against the same) of the invention (including polynucleotide, polypeptide, and antibody fragments or variants thereof) that may be used in preventing, treating, diagnosing, or ameliorating the disease(s) or disorder(s) indicated in the corresponding row in Column 3 of Table 1D.

[89] In another embodiment, the present invention also encompasses methods of preventing, treating, diagnosing, or ameliorating a disease or disorder listed in the "Preferred Indications" column of Table 1D; comprising administering to a patient combinations of the proteins, nucleic acids, or antibodies of the invention (or fragments or variants thereof), sharing similar indications as shown in the corresponding rows in Column 3 of Table 1D.

[90] The "Preferred Indication" column describes diseases, disorders, and/or conditions that may be treated, prevented, diagnosed, or ameliorated by a protein, nucleic acid, or antibody of the invention (or fragment or variant thereof).

[91] The recitation of "Cancer" in the "Preferred Indication" column indicates that the corresponding nucleic acid and protein, or antibody against the same, of the invention (or fragment or variant thereof) may be used for example, to diagnose, treat, prevent, and/or ameliorate diseases and/or disorders relating to neoplastic diseases (e.g., leukemias, cancers, and/or as described below under "Hyperproliferative Disorders").

[92] In specific embodiments, a protein, nucleic acid, or antibody of the invention (or fragment or variant thereof) having a "Cancer" recitation in the "Preferred Indication" column of Table 1D may be used for example, to diagnose, treat, prevent, and/or ameliorate a neoplasm located in a tissue selected from the group consisting of: colon, abdomen, bone, breast, digestive system, liver, pancreas, prostate, peritoneum, lung, blood (e.g., leukemia), endocrine glands (adrenal, parathyroid, pituitary, testicles, ovary, thymus, thyroid), uterus, eye, head and neck, nervous (central and peripheral), lymphatic system, pelvic, skin, soft tissue, spleen, thoracic, and urogenital.

[93] In specific embodiments, a protein, nucleic acid, or antibody of the invention (or fragment or variant thereof) having a "Cancer" recitation in the "Preferred Indication" column of Table 1D, may be used for example, to diagnose, treat, prevent, and/or ameliorate a pre-neoplastic condition, selected from the group consisting of: hyperplasia (e.g., endometrial hyperplasia and/or as described in the section entitled "Hyperproliferative Disorders"), metaplasia (e.g., connective tissue metaplasia, atypical metaplasia, and/or as described in the section entitled "Hyperproliferative Disorders"), and/or dysplasia (e.g., cervical dysplasia, and bronchopulmonary dysplasia).

[94] In another specific embodiment, a protein, nucleic acid, or antibody of the invention (or fragment or variant thereof) having a "Cancer" recitation in the "Preferred Indication" column of Table 1D, may be used for example, to diagnose, treat, prevent, and/or ameliorate a benign dysproliferative disorder selected from the group consisting of:

benign tumors, fibrocystic conditions, tissue hypertrophy, and/or as described in the section entitled “Hyperproliferative Disorders”.

[95] The recitation of “Immune/Hematopoietic” in the “Preferred Indication” column indicates that the corresponding nucleic acid and protein, or antibody against the same, of the invention (or fragment or variant thereof), may be used for example, to diagnose, treat, prevent, and/or ameliorate diseases and/or disorders relating to neoplastic diseases (e.g., as described below under “Hyperproliferative Disorders”), blood disorders (e.g., as described below under “Immune Activity” “Cardiovascular Disorders” and/or “Blood-Related Disorders”), and infections (e.g., as described below under “Infectious Disease”).

[96] In specific embodiments, a protein, nucleic acid, or antibody of the invention (or fragment or variant thereof) having the “Immune/Hematopoietic” recitation in the “Preferred Indication” column of Table 1D, may be used for example, to diagnose, treat, prevent, and/or ameliorate a disease or disorder selected from the group consisting of: anemia, pancytopenia, leukopenia, thrombocytopenia, leukemias, Hodgkin’s disease, non-Hodgkin’s lymphoma, acute lymphocytic anemia (ALL), plasmacytomas, multiple myeloma, Burkitt’s lymphoma, arthritis, asthma, AIDS, autoimmune disease, rheumatoid arthritis, granulomatous disease, immune deficiency, inflammatory bowel disease, sepsis, neutropenia, neutrophilia, psoriasis, immune reactions to transplanted organs and tissues, systemic lupus erythematosus, hemophilia, hypercoagulation, diabetes mellitus, endocarditis, meningitis, Lyme Disease, and allergies.

[97] The recitation of “Reproductive” in the “Preferred Indication” column indicates that the corresponding nucleic acid and protein, or antibody against the same, of the invention (or fragment or variant thereof), may be used for example, to diagnose, treat, prevent, and/or ameliorate diseases and/or disorders relating to neoplastic diseases (e.g., as described below under “Hyperproliferative Disorders”), and disorders of the reproductive system (e.g., as described below under “Reproductive System Disorders”).

[98] In specific embodiments, a protein, nucleic acid, or antibody of the invention (or fragment or variant thereof) having a “Reproductive” recitation in the “Preferred Indication” column of Table 1D, may be used for example, to diagnose, treat, prevent, and/or ameliorate a disease or disorder selected from the group consisting of: cryptorchism, prostatitis, inguinal hernia, varicocele, leydig cell tumors, verrucous carcinoma, prostatitis, malacoplakia, Peyronie’s disease, penile carcinoma, squamous cell hyperplasia, dysmenorrhea, ovarian adenocarcinoma, Turner’s syndrome, mucopurulent cervicitis, Sertoli-leydig tumors, ovarian cancer, uterine cancer, pelvic inflammatory

disease, testicular cancer, prostate cancer, Klinefelter's syndrome, Young's syndrome, premature ejaculation, diabetes mellitus, cystic fibrosis, Kartagener's syndrome, testicular atrophy, testicular feminization, anorchia, ectopic testis, epididymitis, orchitis, gonorrhea, syphilis, testicular torsion, vasitis nodosa, germ cell tumors, stromal tumors, dysmenorrhea, retroverted uterus, endometriosis, fibroids, adenomyosis, anovulatory bleeding, amenorrhea, Cushing's syndrome, hydatidiform moles, Asherman's syndrome, premature menopause, precocious puberty, uterine polyps, dysfunctional uterine bleeding, cervicitis, chronic cervicitis, mucopurulent cervicitis, cervical dysplasia, cervical polyps, Nabothian cysts, cervical erosion, cervical incompetence, cervical neoplasms, pseudohermaphroditism, and premenstrual syndrome.

[99] The recitation of "Musculoskeletal" in the "Preferred Indication" column indicates that the corresponding nucleic acid and protein, or antibody against the same, of the invention (or fragment or variant thereof), may be used for example, to diagnose, treat, prevent, and/or ameliorate diseases and/or disorders relating to neoplastic diseases (e.g., as described below under "Hyperproliferative Disorders"), and disorders of the immune system (e.g., as described below under "Immune Activity").

[100] In specific embodiments, a protein, nucleic acid, or antibody of the invention (or fragment or variant thereof) having a "Musculoskeletal" recitation in the "Preferred Indication" column of Table 1D, may be used for example, to diagnose, treat, prevent, and/or ameliorate a disease or disorder selected from the group consisting of: bone cancers (e.g., osteochondromas, benign chondromas, chondroblastoma, chondromyxoid fibromas, osteoid osteomas, giant cell tumors, multiple myeloma, osteosarcomas), Paget's Disease, rheumatoid arthritis, systemic lupus erythematosus, osteomyelitis, Lyme Disease, gout, bursitis, tendonitis, osteoporosis, osteoarthritis, muscular dystrophy, mitochondrial myopathy, cachexia, and multiple sclerosis.

[101] The recitation of "Cardiovascular" in the "Preferred Indication" column indicates that the corresponding nucleic acid and protein, or antibody against the same, of the invention (or fragment or variant thereof), may be used for example, to diagnose, treat, prevent, and/or ameliorate diseases and/or disorders relating to neoplastic diseases (e.g., as described below under "Hyperproliferative Disorders"), and disorders of the cardiovascular system (e.g., as described below under "Cardiovascular Disorders").

[102] In specific embodiments, a protein, nucleic acid, or antibody of the invention (or fragment or variant thereof) having a "Cardiovascular" recitation in the "Preferred Indication" column of Table 1D, may be used for example, to diagnose, treat, prevent,

and/or ameliorate a disease or disorder selected from the group consisting of: myxomas, fibromas, rhabdomyomas, cardiovascular abnormalities (e.g., congenital heart defects, cerebral arteriovenous malformations, septal defects), heart disease (e.g., heart failure, congestive heart disease, arrhythmia, tachycardia, fibrillation, pericardial Disease, endocarditis), cardiac arrest, heart valve disease (e.g., stenosis, regurgitation, prolapse), vascular disease (e.g., hypertension, coronary artery disease, angina, aneurysm, arteriosclerosis, peripheral vascular disease), hyponatremia, hypernatremia, hypokalemia, and hyperkalemia.

[103] The recitation of “Mixed Fetal” in the “Preferred Indication” column indicates that the corresponding nucleic acid and protein, or antibody against the same, of the invention (or fragment or variant thereof), may be used for example, to diagnose, treat, prevent, and/or ameliorate diseases and/or disorders relating to neoplastic diseases (e.g., as described below under “Hyperproliferative Disorders”).

[104] In specific embodiments, a protein, nucleic acid, or antibody of the invention (or fragment or variant thereof) having a “Mixed Fetal” recitation in the “Preferred Indication” column of Table 1D, may be used for example, to diagnose, treat, prevent, and/or ameliorate a disease or disorder selected from the group consisting of: spina bifida, hydranencephaly, neurofibromatosis, fetal alcohol syndrome, diabetes mellitus, PKU, Down’s syndrome, Patau syndrome, Edwards syndrome, Turner syndrome, Apert syndrome, Carpenter syndrome, Conradi syndrome, Crouzon syndrome, cutis laxa, Cornelia de Lange syndrome, Ellis-van Creveld syndrome, Holt-Oram syndrome, Kartagener syndrome, Meckel-Gruber syndrome, Noonan syndrome, Pallister-Hall syndrome, Rubinstein-Taybi syndrome, Scimitar syndrome, Smith-Lemli-Opitz syndrome, thrombocytopenia-absent radius (TAR) syndrome, Treacher Collins syndrome, Williams syndrome, Hirschsprung’s disease, Meckel’s diverticulum, polycystic kidney disease, Turner’s syndrome, and gonadal dysgenesis, Klippel-Feil syndrome, Osteogenesis imperfecta, muscular dystrophy, Tay-Sachs disease, Wilm’s tumor, neuroblastoma, and retinoblastoma.

[105] The recitation of “Excretory” in the “Preferred Indication” column indicates that the corresponding nucleic acid and protein, or antibody against the same, of the invention (or fragment or variant thereof), may be used for example, to diagnose, treat, prevent, and/or ameliorate diseases and/or disorders relating to neoplastic diseases (e.g., as described below under “Hyperproliferative Disorders”) and renal disorders (e.g., as described below under “Renal Disorders”).

[106] In specific embodiments, a protein, nucleic acid, or antibody of the invention (or fragment or variant thereof) having a “Excretory” recitation in the “Preferred Indication” column of Table 1D, may be used for example, to diagnose, treat, prevent, and/or ameliorate a disease or disorder selected from the group consisting of: bladder cancer, prostate cancer, benign prostatic hyperplasia, bladder disorders (e.g., urinary incontinence, urinary retention, urinary obstruction, urinary tract Infections, interstitial cystitis, prostatitis, neurogenic bladder, hematuria), renal disorders (e.g., hydronephrosis, proteinuria, renal failure, pyelonephritis, urolithiasis, reflux nephropathy, and unilateral obstructive uropathy).

[107] The recitation of “Neural/Sensory” in the “Preferred Indication” column indicates that the corresponding nucleic acid and protein, or antibody against the same, of the invention (or fragment or variant thereof), may be used for example, to diagnose, treat, prevent, and/or ameliorate diseases and/or disorders relating to neoplastic diseases (e.g., as described below under “Hyperproliferative Disorders”) and diseases or disorders of the nervous system (e.g., as described below under “Neural Activity and Neurological Diseases”).

[108] In specific embodiments, a protein, nucleic acid, or antibody of the invention (or fragment or variant thereof) having a “Neural/Sensory” recitation in the “Preferred Indication” column of Table 1D, may be used for example, to diagnose, treat, prevent, and/or ameliorate a disease or disorder selected from the group consisting of: brain cancer (e.g., brain stem glioma, brain tumors, central nervous system (Primary) lymphoma, central nervous system lymphoma, cerebellar astrocytoma, and cerebral astrocytoma, neurodegenerative disorders (e.g., Alzheimer’s Disease, Creutzfeldt-Jakob Disease, Parkinson’s Disease, and Idiopathic Presenile Dementia), encephalomyelitis, cerebral malaria, meningitis, metabolic brain diseases (e.g., phenylketonuria and pyruvate carboxylase deficiency), cerebellar ataxia, ataxia telangiectasia, and AIDS Dementia Complex, schizophrenia, attention deficit disorder, hyperactive attention deficit disorder, autism, and obsessive compulsive disorders.

[109] The recitation of “Respiratory” in the “Preferred Indication” column indicates that the corresponding nucleic acid and protein, or antibody against the same, of the invention (or fragment or variant thereof), may be used for example, to diagnose, treat, prevent, and/or ameliorate diseases and/or disorders relating to neoplastic diseases (e.g., as described below under “Hyperproliferative Disorders”) and diseases or disorders of the respiratory system (e.g., as described below under “Respiratory Disorders”).

[110] In specific embodiments, a protein, nucleic acid, or antibody of the invention (or fragment or variant thereof) having a “Respiratory” recitation in the “Preferred Indication” column of Table 1D, may be used for example, to diagnose, treat, prevent, and/or ameliorate a disease or disorder selected from the group consisting of: cancers of the respiratory system such as larynx cancer, pharynx cancer, trachea cancer, epiglottis cancer, lung cancer, squamous cell carcinomas, small cell (oat cell) carcinomas, large cell carcinomas, and adenocarcinomas. Allergic reactions, cystic fibrosis, sarcoidosis, histiocytosis X, infiltrative lung diseases (e.g., pulmonary fibrosis and lymphoid interstitial pneumonia), obstructive airway diseases (e.g., asthma, emphysema, chronic or acute bronchitis), occupational lung diseases (e.g., silicosis and asbestosis), pneumonia, and pleurisy.

[111] The recitation of “Endocrine” in the “Preferred Indication” column indicates that the corresponding nucleic acid and protein, or antibody against the same, of the invention (or fragment or variant thereof), may be used for example, to diagnose, treat, prevent, and/or ameliorate diseases and/or disorders relating to neoplastic diseases (e.g., as described below under “Hyperproliferative Disorders”) and diseases or disorders of the respiratory system (e.g., as described below under “Respiratory Disorders”), renal disorders (e.g., as described below under “Renal Disorders”), and disorders of the endocrine system (e.g., as described below under “Endocrine Disorders”).

[112] In specific embodiments, a protein, nucleic acid, or antibody of the invention (or fragment or variant thereof) having an “Endocrine” recitation in the “Preferred Indication” column of Table 1D, may be used for example, to diagnose, treat, prevent, and/or ameliorate a disease or disorder selected from the group consisting of: cancers of endocrine tissues and organs (e.g., cancers of the hypothalamus, pituitary gland, thyroid gland, parathyroid glands, pancreas, adrenal glands, ovaries, and testes), diabetes (e.g., diabetes insipidus, type I and type II diabetes mellitus), obesity, disorders related to pituitary glands (e.g., hyperpituitarism, hypopituitarism, and pituitary dwarfism), hypothyroidism, hyperthyroidism, goiter, reproductive disorders (e.g. male and female infertility), disorders related to adrenal glands (e.g., Addison’s Disease, corticosteroid deficiency, and Cushing’s Syndrome), kidney cancer (e.g., hypernephroma, transitional cell cancer, and Wilm’s tumor), diabetic nephropathy, interstitial nephritis, polycystic kidney disease, glomerulonephritis (e.g., IgM mesangial proliferative glomerulonephritis and glomerulonephritis caused by autoimmune disorders; such as Goodpasture’s syndrome), and nephrocalcinosis.

[113] The recitation of “Digestive” in the “Preferred Indication” column indicates that the corresponding nucleic acid and protein, or antibody against the same, of the invention (or fragment or variant thereof), may be used for example, to diagnose, treat, prevent, and/or ameliorate diseases and/or disorders relating to neoplastic diseases (e.g., as described below under “Hyperproliferative Disorders”) and diseases or disorders of the gastrointestinal system (e.g., as described below under “Gastrointestinal Disorders”).

[114] In specific embodiments, a protein, nucleic acid, or antibody of the invention (or fragment or variant thereof) having a “Digestive” recitation in the “Preferred Indication” column of Table 1D, may be used for example, to diagnose, treat, prevent, and/or ameliorate a disease or disorder selected from the group consisting of: ulcerative colitis, appendicitis, Crohn’s disease, hepatitis, hepatic encephalopathy, portal hypertension, cholelithiasis, cancer of the digestive system (e.g., biliary tract cancer, stomach cancer, colon cancer, gastric cancer, pancreatic cancer, cancer of the bile duct, tumors of the colon (e.g., polyps or cancers), and cirrhosis), pancreatitis, ulcerative disease, pyloric stenosis, gastroenteritis, gastritis, gastric atrophy, benign tumors of the duodenum, distension, irritable bowel syndrome, malabsorption, congenital disorders of the small intestine, bacterial and parasitic infection, megacolon, Hirschsprung’s disease, aganglionic megacolon, acquired megacolon, colitis, anorectal disorders (e.g., anal fistulas, hemorrhoids), congenital disorders of the liver (e.g., Wilson’s disease, hemochromatosis, cystic fibrosis, biliary atresia, and alpha1-antitrypsin deficiency), portal hypertension, cholelithiasis, and jaundice.

[115] The recitation of “Connective/Epithelial” in the “Preferred Indication” column indicates that the corresponding nucleic acid and protein, or antibody against the same, of the invention (or fragment or variant thereof), may be used for example, to diagnose, treat, prevent, and/or ameliorate diseases and/or disorders relating to neoplastic diseases (e.g., as described below under “Hyperproliferative Disorders”), cellular and genetic abnormalities (e.g., as described below under “Diseases at the Cellular Level “), angiogenesis (e.g., as described below under “Anti-Angiogenesis Activity “), and or to promote or inhibit regeneration (e.g., as described below under “Regeneration “), and wound healing (e.g., as described below under “Wound Healing and Epithelial Cell Proliferation”).

[116] In specific embodiments, a protein, nucleic acid, or antibody of the invention (or fragment or variant thereof) having a “Connective/Epithelial” recitation in the “Preferred Indication” column of Table 1D, may be used for example, to diagnose, treat, prevent, and/or ameliorate a disease or disorder selected from the group consisting of: connective

tissue metaplasia, mixed connective tissue disease, focal epithelial hyperplasia, epithelial metaplasia, mucoepithelial dysplasia, graft v. host disease, polymyositis, cystic hyperplasia, cerebral dysplasia, tissue hypertrophy, Alzheimer's disease, lymphoproliferative disorder, Waldenström's macroglobulinemia, Crohn's disease, pernicious anemia, idiopathic Addison's disease, glomerulonephritis, bullous pemphigoid, Sjögren's syndrome, diabetes mellitus, cystic fibrosis, osteoblastoma, osteoclastoma, osteosarcoma, chondrosarcoma, osteoporosis, osteoarthritis, periodontal disease, wound healing, relapsing polychondritis, vasculitis, polyarteritis nodosa, Wegener's granulomatosis, cellulitis, rheumatoid arthritis, psoriatic arthritis, discoid lupus erythematosus, systemic lupus erythematosus, scleroderma, CREST syndrome, Sjögren's syndrome, polymyositis, dermatomyositis, mixed connective tissue disease, relapsing polychondritis, vasculitis, Henoch-Schönlein syndrome, erythema nodosum, polyarteritis nodosa, temporal (giant cell) arteritis, Takayasu's arteritis, Wegener's granulomatosis, Reiter's syndrome, Behçet's syndrome, ankylosing spondylitis, cellulitis, keloids, Ehler Danlos syndrome, Marfan syndrome, pseudoxanthoma elasticum, osteogenesis imperfecta, chondrodysplasias, epidermolysis bullosa, Alport syndrome, and cutis laxa.

TABLE 1D

Gene No.	Clone ID	Preferred Indication
1	H2CBD20	Digestive
2	H2CBH91	Cancer
3	H2LBA54	Cancer
4	H2LBB09	Cancer
5	H2LBB09	Cancer
6	H2MAC63	Digestive, Reproductive
7	H2MBA76	Cancer
8	H2MBF60	Cancer
9	H6BSM88	Cancer
10	H6EEA48	Cancer
11	H6EEN71	Cancer
12	H6EEO05	Cancer
13	H6EEU40	Cancer
14	H7TDB54	Cancer
15	H7TMB95	Cancer
16	HAAAT06	Cancer
17	HACAD42	Connective/Epithelial, Mixed Fetal, Neural/Sensory
18	HACBJ11	Cancer
19	HACBS86	Cancer
20	HACBT91	Cancer
21	HACBZ73	Cancer

22	HACCK29	Connective/Epithelial
23	HADAB60	Cancer
24	HADAM31	Connective/Epithelial
25	HADCL19	Connective/Epithelial
26	HADCZ65	Connective/Epithelial, Immune/Hematopoetic
27	HADDC04	Connective/Epithelial, Reproductive
28	HADDP23	Cancer
29	HADDP51	Cancer
30	HADDR24	Cancer
31	HADET62	Connective/Epithelial
32	HADEY08	Cancer
33	HADEY22	Connective/Epithelial
34	HADEY22	Connective/Epithelial
35	HADFB84	Cancer
36	HADFD01	Cancer
37	HADFD10	Cancer
38	HADFK11	Connective/Epithelial
39	HADFT44	Connective/Epithelial, Mixed Fetal, Neural/Sensory
40	HADFW20	Connective/Epithelial
41	HADFX10	Connective/Epithelial, Neural/Sensory
42	HADFY80	Connective/Epithelial, Digestive
43	HADGD93	Cardiovascular, Connective/Epithelial
44	HADMA77	Cancer
45	HADXA10	Cancer
46	HADXA10	Cancer
47	HAFBB15	Cancer
48	HAFBL14	Cancer
49	HAGAB62	Cancer
50	HAGAB83	Neural/Sensory
51	HAGAE84	Neural/Sensory
52	HAGAF75	Digestive, Neural/Sensory
53	HAGAK40	Cancer
54	HAGAU43	Neural/Sensory
55	HAGAZ36	Neural/Sensory
56	HAGBC57	Cancer
57	HAGBL31	Neural/Sensory
58	HAGBO09	Mixed Fetal, Neural/Sensory
59	HAGBO12	Neural/Sensory
60	HAGBO51	Neural/Sensory
61	HAGBS89	Immune/Hematopoetic, Musculoskeletal, Neural/Sensory
62	HAGBV06	Cancer
63	HAGBV25	Cancer
64	HAGBV29	Immune/Hematopoetic, Neural/Sensory
65	HAGCC87	Digestive, Immune/Hematopoetic, Neural/Sensory
66	HAGCH67	Neural/Sensory

67	HAGCI69	Neural/Sensory, Reproductive
68	HAGCT33	Immune/Hematopoetic, Mixed Fetal, Neural/Sensory
69	HAGCZ70	Neural/Sensory
70	HAGDC73	Cancer
71	HAGDG84	Immune/Hematopoetic, Neural/Sensory
72	HAGDH85	Neural/Sensory
73	HAGDI69	Neural/Sensory
74	HAGDJ53	Immune/Hematopoetic, Neural/Sensory
75	HAGDJ56	Cardiovascular, Endocrine, Neural/Sensory
76	HAGDL51	Immune/Hematopoetic, Musculoskeletal, Neural/Sensory
77	HAGDO70	Cancer
78	HAGDT30	Cancer
79	HAGDW68	Endocrine, Neural/Sensory
80	HAGDX84	Cancer
81	HAGEK37	Cancer
82	HAGEK86	Cancer
83	HAGEP30	Neural/Sensory
84	HAGEQ58	Neural/Sensory
85	HAGEQ67	Cancer
86	HAGEU26	Neural/Sensory
87	HAGEW83	Neural/Sensory
88	HAGEX49	Cancer
89	HAGEX49	Cancer
90	HAGFD75	Cancer
91	HAGFF43	Cancer
92	HAGFJ67	Digestive, Immune/Hematopoetic, Neural/Sensory
93	HAGFM58	Cardiovascular, Neural/Sensory
94	HAGFT48	Cancer
95	HAGFU31	Neural/Sensory
96	HAGFW13	Neural/Sensory
97	HAGHE85	Cardiovascular, Neural/Sensory
98	HAGHR18	Neural/Sensory
99	HAGIB90	Cancer
100	HAHEM51	Cardiovascular
101	HAHSA76	Cardiovascular
102	HAHSD51	Cancer
103	HAIBR76	Cancer
104	HAIBT20	Cancer
105	HAIBV91	Cancer
106	HAICE62	Cancer
107	HAICL90	Digestive, Immune/Hematopoetic, Reproductive
108	HAICV44	Cancer
109	HAIDP45	Cancer

110	HAJAB88	Cancer
111	HAJAZ56	Cancer
112	HAMFC67	Cancer
113	HAMFQ38	Cancer
114	HAMGG01	Cancer
115	HANGB24	Cancer
116	HANKC93	Musculoskeletal
117	HAPAD35	Cancer
118	HAPBR13	Cancer
119	HAPBU09	Cancer
120	HAPBU86	Cancer
121	HAPBU86	Cancer
122	HAPNJ33	Cancer
123	HAPNL62	Cancer
124	HAPNO50	Cancer
125	HAPNY10	Cancer
126	HAPPW83	Cancer
127	HAPQJ73	Cancer
128	HAPQK26	Reproductive
129	HAPQU71	Cancer
130	HAPQU71	Cancer
131	HAPQW18	Cancer
132	HAPQX44	Cancer
133	HAPRK55	Cancer
134	HAPSH37	Cancer
135	HAQBG57	Cancer
136	HAQBY85	Cancer
137	HAQBZ15	Cancer
138	HAQCE18	Immune/Hematopoietic, Reproductive
139	HAQCF94	Cancer
140	HARAE26	Neural/Sensory
141	HARAT69	Cancer
142	HARAZ81	Cancer
143	HASAU26	Cancer
144	HASAX57	Cancer
145	HASAY07	Cancer
146	HATAE01	Cancer
147	HATAG52	Endocrine, Neural/Sensory, Reproductive
148	HATAL05	Cancer
149	HATBA90	Endocrine
150	HATBM71	Endocrine
151	HATCF80	Cancer
152	HATCI67	Cancer
153	HATCJ27	Cancer
154	HATCS79	Endocrine, Immune/Hematopoietic
155	HATCX03	Cancer
156	HATDE03	Cancer
157	HATDF41	Cancer
158	HATDH23	Cancer
159	HATDH55	Cancer
160	HATDO84	Endocrine
161	HATDU01	Cancer
162	HATDW05	Endocrine
163	HATEF13	Digestive,

		Endocrine
164	HATEF64	Cancer
165	HATEH40	Cancer
166	HATEI22	Cancer
167	HAUCC84	Cancer
168	HAWAS41	Connective/Epithelial, Excretory, Immune/Hematopoetic
169	HAWBA65	Cancer
170	HBAGH64	Cancer
171	HBAGV01	Connective/Epithelial, Excretory
172	HBAMC50	Excretory
173	HBAMC57	Excretory
174	HBBBA42	Cancer
175	HBBBB08	Neural/Sensory
176	HBBBE83	Cancer
177	HBBMA11	Neural/Sensory
178	HBCAK10	Digestive, Immune/Hematopoetic, Reproductive
179	HBCAK80	Cancer
180	HBCAQ48	Cancer
181	HBCAY17	Cancer
182	HBCGE46	Musculoskeletal
183	HBGBA14	Cardiovascular, Digestive, Reproductive
184	HBGBE75	Cancer
185	HBGBP22	Cancer
186	HBGFQ34	Reproductive
187	HBGML95	Reproductive
188	HBGMT60	Cancer
189	HBHAA53	Neural/Sensory
190	HBIAU43	Cancer
191	HBIAW58	Neural/Sensory
192	HBIBB20	Cancer
193	HBIBF26	Cancer
194	HBIBM33	Neural/Sensory
195	HBIBN67	Cancer
196	HBIBQ69	Immune/Hematopoetic, Neural/Sensory
197	HBIBR38	Neural/Sensory
198	HBIBR61	Cancer
199	HBIBS33	Neural/Sensory
200	HBIBT13	Digestive, Immune/Hematopoetic, Neural/Sensory
201	HBIBZ20	Neural/Sensory
202	HBICB80	Cancer
203	HBJAC40	Cancer
204	HBJAV56	Immune/Hematopoetic, Musculoskeletal
205	HBJAY14	Immune/Hematopoetic
206	HBJBQ69	Immune/Hematopoetic
207	HBJBR40	Immune/Hematopoetic
208	HBJCH46	Immune/Hematopoetic, Musculoskeletal
209	HBJCR17	Cancer

210	HBJCS26	Cancer
211	HBJCW24	Cancer
212	HBJDC57	Immune/Hematopoetic, Reproductive
213	HBJDR18	Immune/Hematopoetic
214	HBJDR83	Immune/Hematopoetic
215	HBJEE51	Immune/Hematopoetic
216	HBJEL21	Cancer
217	HBJFH84	Cancer
218	HBJFJ14	Cancer
219	HBJFJ26	Cancer
220	HBJFJ83	Immune/Hematopoetic, Mixed Fetal
221	HBJFJ83	Immune/Hematopoetic, Mixed Fetal
222	HBJFP47	Immune/Hematopoetic, Reproductive
223	HBJFR77	Cancer
224	HBJFU30	Cancer
225	HBJFX41	Immune/Hematopoetic
226	HBJHO83	Immune/Hematopoetic, Reproductive
227	HBJHS92	Immune/Hematopoetic, Neural/Sensory
228	HBJHT01	Immune/Hematopoetic, Reproductive
229	HBJHT01	Immune/Hematopoetic, Reproductive
230	HBJHW06	Immune/Hematopoetic, Reproductive
231	HBJIR14	Cancer
232	HBJJA26	Immune/Hematopoetic
233	HBJJX02	Immune/Hematopoetic
234	HBJLH78	Immune/Hematopoetic
235	HBJND04	Cancer
236	HBJND57	Immune/Hematopoetic
237	HBKDF66	Cancer
238	HBKEA94	Cancer
239	HBKEE60	Digestive
240	HBKEI41	Endocrine, Mixed Fetal, Reproductive
241	HBMBD51	Digestive, Immune/Hematopoetic
242	HBMBD73	Cancer
243	HBMBE33	Immune/Hematopoetic
244	HBMBM17	Immune/Hematopoetic, Reproductive
245	HBMCL59	Immune/Hematopoetic
246	HBMCM96	Immune/Hematopoetic, Neural/Sensory
247	HBMCQ74	Cancer
248	HBMCQ74	Cancer
249	HBMCT40	Cancer
250	HBMDM08	Immune/Hematopoetic
251	HBMSN62	Cancer
252	HBMSO30	Immune/Hematopoetic
253	HBMTM50	Cancer
254	HBMUD59	Cancer

255	HBMUI10	Cancer
256	HBMUJ48	Cancer
257	HBMUR39	Immune/Hematopoietic
258	HBMVF65	Endocrine, Immune/Hematopoietic, Neural/Sensory
259	HBMVF65	Endocrine, Immune/Hematopoietic, Neural/Sensory
260	HBMWC39	Cancer
261	HBMWJ92	Cancer
262	HBMWS52	Immune/Hematopoietic
263	HBMXE34	Cancer
264	HBMXG01	Immune/Hematopoietic
265	HBMXG76	Immune/Hematopoietic
266	HBMXM05	Excretory, Immune/Hematopoietic, Neural/Sensory
267	HBMXW83	Cancer
268	HBNAE74	Excretory, Musculoskeletal, Reproductive
269	HBNA16	Cancer
270	HBNAZ35	Endocrine, Reproductive
271	HBODK40	Cancer
272	HBODV76	Cancer
273	HBPAD89	Cancer
274	HBPAP39	Immune/Hematopoietic, Neural/Sensory
275	HBQAC45	Neural/Sensory
276	HBQAC72	Neural/Sensory
277	HBQAE37	Neural/Sensory
278	HBSAJ63	Cancer
279	HBSAJ63	Cancer
280	HSDD24	Cancer
281	HBWBD25	Immune/Hematopoietic, Neural/Sensory
282	HBXAS93	Neural/Sensory
283	HBXAT27	Cancer
284	HBXAW57	Neural/Sensory
285	HBXBI29	Neural/Sensory
286	HBXBM24	Neural/Sensory
287	HBXBM78	Cancer
288	HBXCD59	Immune/Hematopoietic, Neural/Sensory
289	HBXCE43	Neural/Sensory
290	HBXCG08	Cancer
291	HBXCM52	Cancer
292	HBXCQ03	Cancer
293	HBXCR15	Cancer
294	HBXDL52	Cancer
295	HBXDL52	Cancer
296	HBXDN08	Cancer
297	HBXDN65	Neural/Sensory
298	HBXFA04	Neural/Sensory
299	HBXFE64	Neural/Sensory
300	HBXFI33	Immune/Hematopoietic, Neural/Sensory

301	HBXFP72	Cancer
302	HBXFS31	Neural/Sensory
303	HBXFW01	Neural/Sensory
304	HBXGE12	Cancer
305	HBXGL91	Neural/Sensory, Reproductive
306	HBXGM24	Cancer
307	HBZAI75	Digestive, Reproductive
308	HCABP33	Cancer
309	HCABW10	Cancer
310	HCACZ65	Cancer
311	HCBAB34	Cancer
312	HCDAA24	Cancer
313	HCDAA24	Cancer
314	HCDAF17	Cancer
315	HCDAH02	Immune/Hematopoetic, Musculoskeletal
316	HCDAP33	Cancer
317	HCDAR40	Cardiovascular, Immune/Hematopoetic, Musculoskeletal
318	HCDAS02	Cancer
319	HCDBE76	Cancer
320	HCDBO32	Cancer
321	HCDBW67	Cancer
322	HCDBZ31	Musculoskeletal
323	HCDCB03	Cancer
324	HCDCE51	Cancer
325	HCDCI42	Immune/Hematopoetic, Musculoskeletal
326	HCDDB15	Cancer
327	HCDDX81	Musculoskeletal
328	HCDDY28	Cardiovascular, Musculoskeletal
329	HCDEB19	Cancer
330	HCDEN46	Cancer
331	HCDSE69	Immune/Hematopoetic, Musculoskeletal, Reproductive
332	HCE1D45	Cancer
333	HCE1N56	Cancer
334	HCE1T53	Neural/Sensory
335	HCE1Y27	Digestive, Neural/Sensory, Reproductive
336	HCE1Y34	Immune/Hematopoetic, Neural/Sensory
337	HCE2B57	Musculoskeletal, Neural/Sensory
338	HCE2E47	Immune/Hematopoetic, Mixed Fetal, Neural/Sensory
339	HCE2I23	Neural/Sensory
340	HCE2P90	Neural/Sensory
341	HCE3A54	Neural/Sensory
342	HCE3C46	Immune/Hematopoetic, Neural/Sensory
343	HCE3D58	Cancer

344	HCE3D89	Endocrine, Neural/Sensory
345	HCE3J43	Cancer
346	HCE3L04	Neural/Sensory
347	HCE3N23	Cancer
348	HCE3R01	Cancer
349	HCE3R01	Cancer
350	HCE3R01	Cancer
351	HCE3R46	Cancer
352	HCE4H32	Cancer
353	HCE4H32	Cancer
354	HCE4T64	Cancer
355	HCE4W88	Cancer
356	HCE5B62	Neural/Sensory
357	HCE5H86	Cancer
358	HCE5J64	Digestive, Neural/Sensory
359	HCEBF54	Cancer
360	HCECO77	Cancer
361	HCEDH42	Neural/Sensory
362	HCEDJ05	Neural/Sensory
363	HCEDJ26	Cancer
364	HCEDN07	Digestive, Mixed Fetal, Neural/Sensory
365	HCEDO17	Cancer
366	HCEEG48	Neural/Sensory
367	HCEEM33	Cancer
368	HCEEP16	Immune/Hematopoietic, Neural/Sensory, Reproductive
369	HCEER60	Cardiovascular, Digestive, Neural/Sensory
370	HCEFA10	Immune/Hematopoietic, Neural/Sensory, Reproductive
371	HCEFA50	Neural/Sensory
372	HCEFA94	Neural/Sensory
373	HCEFC27	Cancer
374	HCEFG93	Neural/Sensory
375	HCEFH31	Cancer
376	HCEFK56	Cancer
377	HCEFN51	Cancer
378	HCEGG08	Cancer
379	HCEGH74	Cancer
380	HCEGK81	Cancer
381	HCEGS49	Connective/Epithelial, Neural/Sensory, Reproductive
382	HCEGU75	Cancer
383	HCEGY33	Cancer
384	HCEHW24	Neural/Sensory
385	HCEJL08	Cancer
386	HCEJP93	Cancer
387	HCELB04	Cancer
388	HCEMA08	Cancer
389	HCENN67	Digestive, Endocrine,

		Neural/Sensory
390	HCENQ22	Digestive, Immune/Hematopoetic, Neural/Sensory
391	HCEOF01	Neural/Sensory, Reproductive
392	HCEOF01	Neural/Sensory, Reproductive
393	HCEON94	Immune/Hematopoetic, Neural/Sensory, Reproductive
394	HCEOQ67	Cancer
395	HCEOV48	Cancer
396	HCEPC90	Neural/Sensory
397	HCEPO08	Cancer
398	HCESB03	Immune/Hematopoetic, Neural/Sensory
399	HCESK44	Cancer
400	HCETE08	Mixed Fetal, Neural/Sensory, Reproductive
401	HCETL19	Immune/Hematopoetic, Neural/Sensory, Reproductive
402	HCEWD90	Cancer
403	HCEWE62	Neural/Sensory
404	HCEZW14	Cancer
405	HCFAT42	Immune/Hematopoetic
406	HCFAT66	Immune/Hematopoetic
407	HCFBA30	Cardiovascular, Immune/Hematopoetic, Reproductive
408	HCFBM77	Immune/Hematopoetic
409	HCFBV39	Cancer
410	HCFCB72	Immune/Hematopoetic
411	HCFCG91	Cancer
412	HCFCM81	Digestive, Immune/Hematopoetic, Reproductive
413	HCFCW39	Cancer
414	HCFCY49	Cancer
415	HCFDD18	Digestive, Immune/Hematopoetic, Mixed Fetal
416	HCFLB10	Cardiovascular, Immune/Hematopoetic
417	HCFLC03	Cancer
418	HCFLJ52	Cancer
419	HCFLI33	Immune/Hematopoetic, Reproductive
420	HCFLP48	Immune/Hematopoetic
421	HCFLQ12	Cancer
422	HCFLY20	Cancer
423	HCFLY20	Cancer
424	HCFMA39	Immune/Hematopoetic
425	HCFMJ40	Immune/Hematopoetic
426	HCFML07	Cancer
427	HCFMR75	Digestive, Immune/Hematopoetic

428	HCFMX16	Immune/Hematopoetic
429	HCFMX88	Immune/Hematopoetic, Neural/Sensory
430	HCFNM40	Digestive, Immune/Hematopoetic, Reproductive
431	HCFNM50	Immune/Hematopoetic
432	HCFNN16	Cancer
433	HCFNN75	Cancer
434	HCFOG17	Immune/Hematopoetic
435	HCFOH93	Immune/Hematopoetic, Reproductive
436	HCGBA15	Cancer
437	HCHAC68	Cancer
438	HCHBP49	Cancer
439	HCHCA79	Digestive, Neural/Sensory, Reproductive
440	HCHCG33	Cancer
441	HCHMY57	Cancer
442	HCHOC06	Reproductive
443	HCHOY52	Cancer
444	HCHQB93	Cancer
445	HCHQB93	Cancer
446	HCLBK61	Cancer
447	HCLCU75	Respiratory
448	HCMSA37	Cardiovascular
449	HCMSR07	Cardiovascular
450	HCNAI74	Digestive
451	HCNCT01	Digestive
452	HCNDR39	Cancer
453	HCNSD91	Cancer
454	HCNSF01	Cancer
455	HCNSG06	Digestive, Reproductive
456	HCNSG32	Digestive, Reproductive
457	HCPAE41	Cancer
458	HCQAK36	Cancer
459	HCQAQ47	Cancer
460	HCQAS72	Cancer
461	HCQBM95	Digestive, Immune/Hematopoetic
462	HCQCM95	Cancer
463	HCQCM95	Cancer
464	HCQCV23	Cancer
465	HCQCV23	Cancer
466	HCQDD32	Digestive, Immune/Hematopoetic, Reproductive
467	HCQDD61	Digestive, Immune/Hematopoetic
468	HCQDT67	Cancer
469	HCRAI29	Neural/Sensory
470	HCRBI79	Cancer
471	HCRBL20	Cancer
472	HCRBX84	Cancer
473	HCRMA24	Digestive, Musculoskeletal

474	HCRM35	Cancer
475	HCRM35	Cancer
476	HCRM35	Cancer
477	HCROC18	Cancer
478	HCUAE53	Immune/Hematopoietic
479	HCUAO46	Immune/Hematopoietic
480	HCUAT74	Cancer
481	HCUBA28	Cancer
482	HCUBC45	Cancer
483	HCUBM41	Immune/Hematopoietic
484	HCUBN69	Immune/Hematopoietic
485	HCUBY47	Digestive, Immune/Hematopoietic
486	HCUCV66	Cancer
487	HCUDJ41	Immune/Hematopoietic
488	HCUEC55	Immune/Hematopoietic
489	HCUEG85	Immune/Hematopoietic
490	HCUES35	Immune/Hematopoietic, Neural/Sensory
491	HCUFC77	Cancer
492	HCUFD17	Cancer
493	HCUFD46	Immune/Hematopoietic
494	HCUFE33	Immune/Hematopoietic
495	HCUFJ09	Cancer
496	HCUFQ58	Cardiovascular, Immune/Hematopoietic
497	HCUFQ58	Cardiovascular, Immune/Hematopoietic
498	HCUFX08	Immune/Hematopoietic
499	HCUGB76	Immune/Hematopoietic, Reproductive
500	HCUGK79	Immune/Hematopoietic
501	HCUGQ19	Immune/Hematopoietic
502	HCUGR26	Immune/Hematopoietic
503	HCUGR86	Immune/Hematopoietic
504	HCUHE27	Immune/Hematopoietic
505	HCUHL82	Cardiovascular, Immune/Hematopoietic, Reproductive
506	HCUHM71	Immune/Hematopoietic, Musculoskeletal
507	HCWAK88	Immune/Hematopoietic
508	HCWAL10	Cardiovascular, Immune/Hematopoietic
509	HCWAT71	Immune/Hematopoietic
510	HCWBQ52	Immune/Hematopoietic
511	HCWCH16	Immune/Hematopoietic
512	HCWDM69	Digestive, Immune/Hematopoietic
513	HCWEB38	Immune/Hematopoietic
514	HCWEB72	Immune/Hematopoietic
515	HCWEF04	Cancer
516	HCWEI82	Immune/Hematopoietic
517	HCWEM96	Cancer
518	HCWFJ16	Immune/Hematopoietic
519	HCWFJ16	Immune/Hematopoietic
520	HCWFK03	Cancer
521	HCWHD30	Immune/Hematopoietic
522	HCWHT34	Immune/Hematopoietic,

		Mixed Fetal
523	HCWHT52	Immune/Hematopoietic
524	HCWKO32	Immune/Hematopoietic
525	HCWLE50	Immune/Hematopoietic
526	HCWUF93	Cancer
527	HCWUW24	Immune/Hematopoietic
528	HCYBA32	Cancer
529	HDAAV67	Musculoskeletal, Neural/Sensory
530	HDABR74	Cancer
531	HDABW45	Immune/Hematopoietic, Musculoskeletal
532	HDACJ52	Cancer
533	HDCBM09	Immune/Hematopoietic
534	HDFAB86	Mixed Fetal, Neural/Sensory
535	HDFIB37	Connective/Epithelial, Neural/Sensory
536	HDFMB91	Neural/Sensory
537	HDHAA55	Immune/Hematopoietic, Neural/Sensory
538	HDHEA33	Cancer
539	HDHEB12	Immune/Hematopoietic, Neural/Sensory
540	HDHEB80	Neural/Sensory
541	HDHIA16	Cancer
542	HDHIA26	Neural/Sensory
543	HDHMA71	Cancer
544	HDLAL94	Cancer
545	HDPAB86	Cancer
546	HDPAE80	Cancer
547	HDPAQ86	Digestive, Immune/Hematopoietic, Neural/Sensory
548	HDPBD56	Cancer
549	HDPBN48	Digestive, Immune/Hematopoietic
550	HDPCG79	Digestive, Immune/Hematopoietic, Reproductive
551	HDPCV29	Immune/Hematopoietic
552	HDPDA36	Immune/Hematopoietic
553	HDPDC59	Immune/Hematopoietic, Musculoskeletal
554	HDPFG13	Cancer
555	HDPFK27	Immune/Hematopoietic, Neural/Sensory
556	HDPFZ05	Immune/Hematopoietic, Neural/Sensory
557	HDPGA84	Cancer
558	HDPGR80	Cancer
559	HDPGU14	Cancer
560	HDPGX09	Cancer
561	HDPIE44	Cancer
562	HDPIE73	Immune/Hematopoietic
563	HDPIF35	Immune/Hematopoietic
564	HDPIF65	Immune/Hematopoietic
565	HDPIH25	Cancer
566	HDPIY31	Cancer

567	HDPJH72	Cancer
568	HDPJV53	Immune/Hematopoetic
569	HDPJV75	Cancer
570	HDPKC55	Cardiovascular, Immune/Hematopoetic, Reproductive
571	HDPKD16	Cancer
572	HDPMC52	Digestive, Immune/Hematopoetic, Musculoskeletal
573	HDPML04	Connective/Epithelial, Immune/Hematopoetic
574	HDPMM22	Immune/Hematopoetic
575	HDPNC21	Cancer
576	HDPNJ26	Cancer
577	HDPD73	Digestive, Immune/Hematopoetic
578	HDPOT33	Cancer
579	HDPPB70	Cancer
580	HDPPC19	Immune/Hematopoetic
581	HDPPE05	Cancer
582	HDPSA70	Cancer
583	HDPS56	Cancer
584	HDPSZ07	Immune/Hematopoetic
585	HDPSZ07	Immune/Hematopoetic
586	HDPSZ07	Immune/Hematopoetic
587	HDPTI49	Immune/Hematopoetic, Neural/Sensory
588	HDPTP22	Immune/Hematopoetic, Neural/Sensory, Reproductive
589	HDPTY25	Immune/Hematopoetic, Neural/Sensory
590	HDQGD06	Cancer
591	HDQGD06	Cancer
592	HDQGD06	Cancer
593	HDQGN08	Immune/Hematopoetic
594	HDQGO62	Cancer
595	HDQPM16	Cancer
596	HDRAA17	Cancer
597	HDRAC68	Cancer
598	HDSAC78	Cancer
599	HDSAH37	Connective/Epithelial
600	HDSAM57	Immune/Hematopoetic
601	HDSAO14	Cancer
602	HDSAO64	Cancer
603	HDSAP15	Cancer
604	HDTAR39	Cancer
605	HDTAS57	Cancer
606	HDTBP62	Cancer
607	HDTBQ77	Cancer
608	HDTDA48	Immune/Hematopoetic, Neural/Sensory
609	HDTDE66	Cancer
610	HDTDG75	Immune/Hematopoetic
611	HDTDS09	Cancer
612	HDTFF53	Cancer
613	HDTGW76	Cancer
614	HDTGZ56	Immune/Hematopoetic

615	HDTHZ85	Cancer
616	HDTIM39	Cancer
617	HDTKJ29	Cancer
618	HUAB12	Cancer
619	HUAD68	Cancer
620	HE2AC74	Cancer
621	HE2AC74	Cancer
622	HE2AC75	Mixed Fetal
623	HE2AI94	Cancer
624	HE2AT61	Cancer
625	HE2AX36	Cancer
626	HE2AY96	Cancer
627	HE2BD72	Cancer
628	HE2BH50	Cancer
629	HE2CB53	Cancer
630	HE2CC17	Excretory, Mixed Fetal
631	HE2CJ53	Cancer
632	HE2CK47	Cancer
633	HE2CM34	Cancer
634	HE2DG46	Mixed Fetal
635	HE2DI16	Mixed Fetal
636	HE2DJ84	Cancer
637	HE2DY23	Cancer
638	HE2DY25	Cancer
639	HE2EE80	Cancer
640	HE2EH45	Mixed Fetal
641	HE2FE89	Cardiovascular, Digestive, Mixed Fetal
642	HE2FR49	Cancer
643	HE2GB19	Cancer
644	HE2GO81	Cancer
645	HE2HB61	Mixed Fetal
646	HE2HB64	Cancer
647	HE2HF76	Cancer
648	HE2ID09	Mixed Fetal
649	HE2IE66	Cancer
650	HE2NW57	Mixed Fetal
651	HE2OA95	Cancer
652	HE2OC39	Mixed Fetal, Musculoskeletal
653	HE2PB61	Cancer
654	HE2PI43	Cancer
655	HE2PJ56	Cancer
656	HE6CJ41	Immune/Hematopoietic, Mixed Fetal
657	HE6DC37	Digestive, Mixed Fetal, Reproductive
658	HE6DN83	Cancer
659	HE6EI30	Immune/Hematopoietic, Mixed Fetal
660	HE6ET70	Mixed Fetal, Reproductive
661	HE6GO65	Mixed Fetal, Neural/Sensory
662	HE8AN83	Mixed Fetal, Musculoskeletal

663	HE8AU68	Cancer
664	HE8BE20	Cancer
665	HE8BP05	Mixed Fetal
666	HE8BP64	Cancer
667	HE8BQ49	Mixed Fetal
668	HE8BR18	Cancer
669	HE8BR30	Mixed Fetal
670	HE8BT58	Cancer
671	HE8BU60	Cancer
672	HE8CA13	Cancer
673	HE8CC34	Cardiovascular, Digestive, Mixed Fetal
674	HE8CH08	Cancer
675	HE8DG02	Mixed Fetal
676	HE8DK52	Cancer
677	HE8DZ94	Cancer
678	HE8EN79	Cancer
679	HE8EX86	Cancer
680	HE8FC10	Immune/Hematopoietic, Mixed Fetal, Reproductive
681	HE8FG15	Cancer
682	HE8FG24	Cancer
683	HE8FK78	Cancer
684	HE8FL24	Mixed Fetal
685	HE8FL68	Mixed Fetal
686	HE8FR53	Cancer
687	HE8MA27	Cancer
688	HE8MG56	Mixed Fetal
689	HE8MQ01	Cancer
690	HE8MS43	Cancer
691	HE8MY77	Cancer
692	HE8NC81	Cancer
693	HE8NO09	Cancer
694	HE8QU21	Immune/Hematopoietic, Mixed Fetal
695	HE8SH74	Immune/Hematopoietic, Mixed Fetal, Musculoskeletal
696	HE8UX34	Mixed Fetal
697	HE9AE05	Cancer
698	HE9BJ14	Mixed Fetal, Musculoskeletal
699	HE9CI81	Cancer
700	HE9CJ38	Mixed Fetal
701	HE9CM11	Mixed Fetal
702	HE9CN58	Cancer
703	HE9CV59	Cancer
704	HE9DG54	Cancer
705	HE9DH59	Cancer
706	HE9DZ47	Endocrine, Immune/Hematopoietic, Mixed Fetal
707	HE9EC36	Cancer
708	HE9EM54	Immune/Hematopoietic, Mixed Fetal
709	HE9FH28	Mixed Fetal
710	HE9HE13	Cancer

711	HE9HE13	Cancer
712	HE9HF59	Mixed Fetal
713	HE9HV71	Cancer
714	HE9NB82	Cancer
715	HE9NE43	Mixed Fetal
716	HE9RN58	Cancer
717	HE9TA42	Cancer
718	HEAAC21	Cancer
719	HEAAC39	Neural/Sensory, Reproductive
720	HEAAC48	Reproductive
721	HEAAD63	Neural/Sensory, Reproductive
722	HEAAE19	Immune/Hematopoietic, Reproductive
723	HEAAM54	Reproductive
724	HEAAM96	Reproductive
725	HEAAN52	Cancer
726	HEAAU28	Reproductive
727	HEAAW54	Reproductive
728	HEAAW94	Cancer
729	HEBAP51	Cancer
730	HEBAT05	Cancer
731	HEBBF78	Cancer
732	HEBBK04	Cancer
733	HEBCN80	Neural/Sensory
734	HEBCW57	Mixed Fetal, Neural/Sensory
735	HEBDF90	Cancer
736	HEBDW31	Cancer
737	HEBFL36	Neural/Sensory
738	HEBGC01	Neural/Sensory
739	HEBGE23	Cancer
740	HEBGE85	Digestive, Neural/Sensory, Reproductive
741	HEBGJ94	Cancer
742	HEBGM06	Cancer
743	HEEAB58	Cancer
744	HEEAF49	Cancer
745	HEEAJ46	Mixed Fetal, Reproductive
746	HEGAI20	Reproductive
747	HEIAC52	Cancer
748	HELAC55	Cardiovascular, Immune/Hematopoietic, Musculoskeletal
749	HELAT58	Cardiovascular
750	HELAW94	Cancer
751	HELDF80	Cancer
752	HELDH39	Cancer
753	HELDK79	Cardiovascular
754	HELDQ42	Cancer
755	HELEE85	Cancer
756	HELEL76	Cancer
757	HELEL76	Cancer
758	HELEO45	Cancer
759	HELFA57	Cancer
760	HELFO30	Cancer

761	HELGF28	Cancer
762	HELGP60	Cardiovascular, Excretory, Immune/Hematopoetic
763	HELHN47	Cancer
764	HELHP11	Cardiovascular, Immune/Hematopoetic
765	HELHP11	Cardiovascular, Immune/Hematopoetic
766	HEMAE30	Cancer
767	HEMBV40	Cancer
768	HEMCJ80	Cancer
769	HEMCL55	Cardiovascular
770	HEMDB07	Cardiovascular
771	HEMDR05	Cardiovascular, Digestive, Immune/Hematopoetic
772	HEMGK71	Cardiovascular, Immune/Hematopoetic, Musculoskeletal
773	HEOMF59	Immune/Hematopoetic
774	HEOMJ73	Cancer
775	HEOMR67	Cancer
776	HEOMU25	Connective/Epithelial, Immune/Hematopoetic
777	HEOMU44	Cancer
778	HEONI85	Digestive, Immune/Hematopoetic, Reproductive
779	HEONK04	Cancer
780	HEONP08	Immune/Hematopoetic
781	HEPAD15	Endocrine, Reproductive
782	HEPBC23	Cancer
783	HEPBV09	Reproductive
784	HEPCF35	Neural/Sensory, Reproductive
785	HEPCU48	Cancer
786	HEQAH47	Cancer
787	HEQAP92	Cancer
788	HEQAV53	Cancer
789	HEQBJ01	Cancer
790	HEQBJ01	Cancer
791	HEQBJ01	Cancer
792	HEQBM94	Cancer
793	HEQCB93	Cancer
794	HERAI63	Connective/Epithelial
795	HERAQ22	Connective/Epithelial
796	HERAS61	Connective/Epithelial
797	HESAG57	Cancer
798	HETAA62	Cancer
799	HETBB70	Immune/Hematopoetic, Reproductive
800	HETBJ88	Cancer
801	HETCM67	Cancer
802	HETDD61	Reproductive
803	HETDD61	Reproductive
804	HETDJ34	Cancer
805	HETDM73	Cancer

806	HETDP76	Cancer
807	HETFO57	Cancer
808	HETGZ31	Cancer
809	HETHD26	Cancer
810	HETHM27	Cancer
811	HETIN36	Cancer
812	HFAAI17	Neural/Sensory
813	HFAAJ45	Immune/Hematopoetic, Neural/Sensory
814	HFADF41	Neural/Sensory
815	HFADM09	Cancer
816	HFAUA23	Cancer
817	HFCAG75	Cancer
818	HFCAI40	Cancer
819	HFCAQ17	Cancer
820	HFCBC16	Neural/Sensory
821	HFCBL53	Cancer
822	HFCBL53	Cancer
823	HFCBL53	Cancer
824	HFCBT29	Cancer
825	HFCCZ31	Cancer
826	HFCDN13	Cancer
827	HFCDT67	Cancer
828	HFCDY36	Neural/Sensory
829	HFCEC45	Cancer
830	HFCEI43	Cancer
831	HFEAG55	Cancer
832	HFEAU63	Connective/Epithelial
833	HFEBA88	Cancer
834	HFEBK75	Connective/Epithelial
835	HFEBQ15	Cancer
836	HFEBQ17	Connective/Epithelial
837	HFFAE46	Neural/Sensory
838	HFFAH01	Digestive, Immune/Hematopoetic, Neural/Sensory
839	HFFAL70	Cancer
840	HFFAV61	Neural/Sensory
841	HFGAB50	Cancer
842	HFGAE28	Cancer
843	HFGAN63	Cancer
844	HFHDN80	Cardiovascular, Digestive, Immune/Hematopoetic
845	HFIAB78	Cancer
846	HFIAD23	Cancer
847	HFIAK06	Musculoskeletal, Reproductive
848	HFICH70	Musculoskeletal
849	HFIHQ57	Musculoskeletal, Reproductive
850	HFIK29	Cancer
851	HFIK29	Cancer
852	HFIK29	Cancer
853	HFIK29	Cancer
854	HFIQ27	Cancer
855	HFIQ64	Cancer
856	HFIIZ61	Cancer

857	HFIJD81	Cancer
858	HFIJF44	Cancer
859	HFITA02	Immune/Hematopoetic, Musculoskeletal
860	HFITF80	Cancer
861	HFIUK66	Cancer
862	HFIUT21	Cancer
863	HFIVB04	Cancer
864	HFIXC39	Cancer
865	HFIXC69	Cancer
866	HFIXE39	Cancer
867	HFIYP15	Immune/Hematopoetic, Musculoskeletal
868	HFIZE10	Cancer
869	HFIZF51	Musculoskeletal
870	HFIZK42	Immune/Hematopoetic, Musculoskeletal
871	HFIZM89	Musculoskeletal
872	HFKBA62	Digestive, Excretory, Neural/Sensory
873	HFKBC47	Cancer
874	HFKDX53	Cancer
875	HFKEB14	Cancer
876	HFKEG63	Excretory
877	HFKES35	Cancer
878	HFKES35	Cancer
879	HFKEU17	Cancer
880	HFKEV77	Cancer
881	HFKFI15	Cancer
882	HFKFI35	Excretory
883	HFKFK49	Cancer
884	HFKFBV88	Cancer
885	HFKFBV88	Cancer
886	HFKFBV88	Cancer
887	HFKFX64	Excretory, Mixed Fetal
888	HFOXD49	Cancer
889	HFOXEX28	Cancer
890	HFOYH74	Musculoskeletal
891	HFOYP02	Musculoskeletal
892	HFOYR24	Musculoskeletal
893	HFOYR54	Cancer
894	HFOZB26	Cancer
895	HFPBF54	Cancer
896	HFPBF54	Cancer
897	HFPBI93	Cancer
898	HFPBJ64	Musculoskeletal, Neural/Sensory
899	HFPBQ55	Musculoskeletal, Neural/Sensory, Reproductive
900	HFPCCK22	Cancer
901	HFPCM32	Neural/Sensory
902	HFPCM36	Cancer
903	HFPCS84	Neural/Sensory
904	HFPCU47	Neural/Sensory
905	HFPCY66	Digestive, Neural/Sensory

906	HFPDC65	Cancer
907	HFPDE42	Musculoskeletal, Neural/Sensory
908	HFPDE88	Neural/Sensory
909	HFPDO25	Neural/Sensory
910	HFPDP70	Neural/Sensory
911	HFPDR39	Cancer
912	HFPDX08	Cancer
913	HFPEP69	Neural/Sensory
914	HFRAU40	Cancer
915	HFRAY90	Cancer
916	HFSAY91	Cancer
917	HFSBC10	Immune/Hematopoietic, Mixed Fetal
918	HFSBE94	Immune/Hematopoietic
919	HFTAN11	Cancer
920	HFTAR27	Cancer
921	HFTAR30	Cancer
922	HFTAS49	Cancer
923	HFTBB50	Cancer
924	HFTBL17	Cancer
925	HFTBL17	Cancer
926	HFTCF02	Digestive, Musculoskeletal, Neural/Sensory
927	HFTCI85	Neural/Sensory
928	HFTCJ32	Neural/Sensory
929	HFTCO17	Cancer
930	HFTCW07	Neural/Sensory
931	HFTDF32	Cancer
932	HFTDF79	Immune/Hematopoietic, Neural/Sensory, Reproductive
933	HFTDK11	Cancer
934	HFTDU08	Immune/Hematopoietic, Musculoskeletal, Neural/Sensory
935	HFVGK67	Digestive, Immune/Hematopoietic
936	HFVHD38	Cancer
937	HFVHY57	Cancer
938	HFVIC33	Cancer
939	HFXAK32	Cancer
940	HFXAK59	Cancer
941	HFXBI64	Neural/Sensory
942	HFXBL05	Mixed Fetal, Neural/Sensory
943	HFXBM52	Neural/Sensory
944	HFXBR58	Neural/Sensory
945	HFXBV67	Digestive, Neural/Sensory
946	HFXBY20	Neural/Sensory
947	HFXCB70	Neural/Sensory
948	HFXCI42	Neural/Sensory
949	HFXCL59	Immune/Hematopoietic, Musculoskeletal, Neural/Sensory
950	HFXCM22	Neural/Sensory, Reproductive

951	HFXCN18	Neural/Sensory
952	HFXCS53	Cancer
953	HFXDB37	Neural/Sensory
954	HFXDI32	Neural/Sensory
955	HFXDJ43	Neural/Sensory
956	HFXDL76	Immune/Hematopoetic, Musculoskeletal, Neural/Sensory
957	HFXDM75	Neural/Sensory
958	HFXDO18	Neural/Sensory
959	HFXDP44	Neural/Sensory
960	HFXDR08	Immune/Hematopoetic, Neural/Sensory, Reproductive
961	HFXDR28	Neural/Sensory
962	HFXDR28	Neural/Sensory
963	HFXDR47	Cancer
964	HFXDZ03	Immune/Hematopoetic, Neural/Sensory
965	HFXED33	Neural/Sensory
966	HFXEE88	Neural/Sensory
967	HFXGR32	Neural/Sensory
968	HFXGT51	Neural/Sensory
969	HFXGW16	Neural/Sensory
970	HFXHC15	Neural/Sensory
971	HFXHI33	Immune/Hematopoetic, Neural/Sensory
972	HFXHL21	Neural/Sensory
973	HFXHL83	Neural/Sensory
974	HFXHM49	Neural/Sensory
975	HFXHM93	Neural/Sensory
976	HFXHN89	Immune/Hematopoetic, Neural/Sensory
977	HFXJB21	Neural/Sensory
978	HFXJN93	Neural/Sensory
979	HFXJS15	Cancer
980	HFXJT53	Cancer
981	HFXKG56	Neural/Sensory
982	HFXKL60	Cancer
983	HFXLG08	Neural/Sensory
984	HFXLK91	Cancer
985	HFXLM32	Neural/Sensory, Reproductive
986	HGBAX83	Digestive
987	HGBBR29	Cancer
988	HGBDL51	Cancer
989	HGBDV35	Cancer
990	HGBDX28	Cancer
991	HGBGX31	Cancer
992	HGBHE23	Cancer
993	HGBHI15	Digestive
994	HGCMW39	Cancer
995	HGLAG32	Cancer
996	HGLAH08	Cancer
997	HGLAH86	Immune/Hematopoetic
998	HGLBC33	Cancer
999	HGLBG15	Cancer
1000	HGLBM55	Cancer
1001	HGLDA95	Cancer

1048	HHGBV02	Immune/Hematopoetic, Reproductive
1049	HHGBW55	Immune/Hematopoetic, Reproductive
1050	HHGBX88	Cancer
1051	HHGCA26	Reproductive
1052	HHGDA81	Cancer
1053	HHGDI12	Neural/Sensory
1054	HHGDR05	Neural/Sensory
1055	HHGDR92	Cancer
1056	HHGDS56	Cancer
1057	HHGDW65	Cancer
1058	HHLBA86	Digestive
1059	HHNAC56	Digestive
1060	HHPBG90	Cancer
1061	HHPDE28	Cancer
1062	HHPDJ11	Cancer
1063	HHPDX86	Neural/Sensory
1064	HHPEA17	Neural/Sensory
1065	HHPEB61	Immune/Hematopoetic, Neural/Sensory, Respiratory
1066	HHPFP26	Cancer
1067	HHPFS11	Cardiovascular, Neural/Sensory
1068	HHPFS15	Cancer
1069	HHPFS18	Cancer
1070	HHPGH34	Neural/Sensory, Reproductive
1071	HHPGU74	Neural/Sensory
1072	HHPGU87	Cancer
1073	HHPSD42	Immune/Hematopoetic, Neural/Sensory
1074	HHPSE03	Neural/Sensory
1075	HHPSE55	Cancer
1076	HHPSE70	Cancer
1077	HHPSH74	Cancer
1078	HHPSL14	Cancer
1079	HHPSM40	Neural/Sensory
1080	HHPTF26	Mixed Fetal, Musculoskeletal, Neural/Sensory
1081	HHSAD31	Immune/Hematopoetic, Neural/Sensory, Reproductive
1082	HHSAE74	Neural/Sensory
1083	HHSAG62	Cancer
1084	HHSBK17	Neural/Sensory
1085	HHSBJ92	Cancer
1086	HHSBN84	Cancer
1087	HHSC24	Cancer
1088	HHSCQ67	Cancer
1089	HHSCU12	Cancer
1090	HHSD43	Cancer
1091	HHSDL07	Neural/Sensory
1092	HHSDX07	Cancer
1093	HHSFF54	Cancer
1094	HHSGB85	Cancer
1095	HHSGL84	Neural/Sensory

1096	HHTLH79	Immune/Hematopoetic, Musculoskeletal, Neural/Sensory
1097	HIABC70	Cancer
1098	HIATG10	Endocrine
1099	HIBCO70	Cancer
1100	HIBCR82	Mixed Fetal, Neural/Sensory
1101	HIBDA41	Cancer
1102	HIBEC45	Cancer
1103	HILBW03	Cancer
1104	HISAE16	Digestive
1105	HISAG53	Cancer
1106	HISAN63	Digestive
1107	HISAT78	Cancer
1108	HISBA38	Digestive, Immune/Hematopoetic
1109	HISBB66	Cancer
1110	HISCJ20	Cancer
1111	HISCK41	Digestive
1112	HISCO45	Cancer
1113	HISEJ52	Cancer
1114	HJABC58	Cancer
1115	HJABG59	Immune/Hematopoetic
1116	HJABR75	Immune/Hematopoetic
1117	HJABS31	Cancer
1118	HJABT12	Digestive, Immune/Hematopoetic, Neural/Sensory
1119	HJACE25	Cancer
1120	HJACK21	Cancer
1121	HJBCG74	Cancer
1122	HJBCO21	Cancer
1123	HJBCQ40	Immune/Hematopoetic
1124	HJBDM36	Cancer
1125	HJMAF30	Cancer
1126	HJMAM72	Cancer
1127	HJMAZ60	Cancer
1128	HJMBB20	Cancer
1129	HJMBB20	Cancer
1130	HJMBB20	Cancer
1131	HJMBK59	Cancer
1132	HJMBP01	Cancer
1133	HJMBQ17	Cancer
1134	HJMBW62	Reproductive
1135	HJMBX54	Musculoskeletal, Reproductive
1136	HJPAF69	Immune/Hematopoetic
1137	HJPAQ19	Cancer
1138	HJPAZ35	Cancer
1139	HJPBI77	Immune/Hematopoetic, Musculoskeletal, Neural/Sensory
1140	HJPBN96	Cancer
1141	HJPBU47	Cancer
1142	HJPCQ19	Cancer
1143	HJPDJ08	Immune/Hematopoetic
1144	HJPDK61	Cancer
1145	HKABI53	Cancer

1146	HKABN63	Cancer
1147	HKACA25	Cancer
1148	HKACO64	Cancer
1149	HKACP50	Cancer
1150	HKACX90	Cancer
1151	HKADI27	Cancer
1152	HKADN26	Cancer
1153	HKADP79	Cancer
1154	HKADT55	Cancer
1155	HKA EK58	Cancer
1156	HKA EK72	Connective/Epithelial
1157	HKA FJ47	Cancer
1158	HKA FQ41	Cancer
1159	HKA HH71	Cancer
1160	HKA JA95	Cancer
1161	HKA KU90	Cancer
1162	HKCSZ54	Digestive
1163	HKFAA15	Cancer
1164	HKFBB08	Immune/Hematopoetic
1165	HKGAG59	Cancer
1166	HKG AJ81	Cancer
1167	HKG AK45	Musculoskeletal, Reproductive
1168	HKG AP04	Cancer
1169	HKG AP57	Immune/Hematopoetic
1170	HKG AW41	Cancer
1171	HKG BA21	Connective/Epithelial, Mixed Fetal, Musculoskeletal
1172	HKG BC33	Immune/Hematopoetic
1173	HKG BC73	Cancer
1174	HKG BF61	Cancer
1175	HKG BH54	Cancer
1176	HKG BP52	Cancer
1177	HKG CE23	Cancer
1178	HKG CE62	Immune/Hematopoetic
1179	HKG CK41	Cancer
1180	HKG CK41	Cancer
1181	HKG CN96	Cancer
1182	HKG CX05	Cancer
1183	HKG DA95	Cancer
1184	HKG DO12	Cancer
1185	HKIME53	Cancer
1186	HKIMG23	Cancer
1187	HKIXB73	Excretory
1188	HKIXD68	Cancer
1189	HKIXR91	Cancer
1190	HKIXS19	Cancer
1191	HKIXW45	Cancer
1192	HKIYU90	Excretory, Neural/Sensory
1193	HKMLB81	Excretory
1194	HKMLF77	Excretory
1195	HKMLM32	Excretory, Neural/Sensory
1196	HKMLR17	Cancer
1197	HKMLT89	Excretory, Immune/Hematopoetic,

		Reproductive
1198	HKMLV05	Excretory, Immune/Hematopoetic
1199	HKMLV25	Cancer
1200	HKMMB79	Cancer
1201	HKMMC69	Excretory, Immune/Hematopoetic
1202	HKMMD91	Cancer
1203	HKMMP90	Excretory, Immune/Hematopoetic, Neural/Sensory
1204	HKMMU76	Cancer
1205	HKPAC10	Excretory
1206	HKPAC50	Cancer
1207	HKPMA08	Cancer
1208	HKTAC18	Cancer
1209	HL1SA89	Cancer
1210	HL2AB60	Cancer
1211	HL3AE69	Cancer
1212	HL3AF32	Cancer
1213	HLDAV70	Digestive, Immune/Hematopoetic
1214	HLDBL62	Cancer
1215	HLDBV18	Cancer
1216	HLDBV54	Cancer
1217	HLDCR26	Cancer
1218	HLDDM27	Cancer
1219	HLDDM27	Cancer
1220	HLDNF18	Cancer
1221	HLDNN84	Digestive, Mixed Fetal
1222	HLDOD77	Digestive
1223	HLDOL74	Cancer
1224	HLDPB24	Cardiovascular, Digestive
1225	HLDRU08	Cancer
1226	HLDXF43	Cancer
1227	HLEAA10	Immune/Hematopoetic
1228	HLEAA24	Immune/Hematopoetic
1229	HLHAE14	Neural/Sensory, Respiratory
1230	HLHAE14	Neural/Sensory, Respiratory
1231	HLHBS54	Cancer
1232	HLHCB33	Digestive, Reproductive, Respiratory
1233	HLHCF14	Connective/Epithelial, Respiratory
1234	HLHCG24	Cancer
1235	HLHCH20	Cancer
1236	HLHCN51	Digestive, Immune/Hematopoetic, Respiratory
1237	HLHCT96	Cancer
1238	HLHDC33	Immune/Hematopoetic, Reproductive, Respiratory
1239	HLHDF92	Cancer

1240	HLHDI05	Respiratory
1241	HLHDL37	Respiratory
1242	HLHDL69	Cancer
1243	HLHDL69	Cancer
1244	HLHDL69	Cancer
1245	HLHDL69	Cancer
1246	HLHDM38	Cancer
1247	HLHDR92	Neural/Sensory, Respiratory
1248	HLHDY94	Cancer
1249	HLHEE27	Cancer
1250	HLHEE38	Connective/Epithelial, Neural/Sensory, Respiratory
1251	HLHEI72	Musculoskeletal, Respiratory
1252	HLHEX62	Excretory, Immune/Hematopoetic, Respiratory
1253	HLHFK59	Digestive, Respiratory
1254	HLHFP09	Cancer
1255	HLHGG78	Cancer
1256	HLHSG15	Cancer
1257	HLHSQ35	Respiratory
1258	HLHTB92	Immune/Hematopoetic, Respiratory
1259	HLHTP55	Cancer
1260	HLIBD74	Digestive
1261	HLIBE41	Digestive, Immune/Hematopoetic, Reproductive
1262	HLIBO16	Digestive, Immune/Hematopoetic
1263	HLJBI22	Cancer
1264	HLJEE16	Cancer
1265	HLLAX64	Cancer
1266	HLLAX95	Immune/Hematopoetic
1267	HLLCD67	Immune/Hematopoetic
1268	HLMBX89	Cancer
1269	HLMBZ14	Immune/Hematopoetic
1270	HLMCT51	Immune/Hematopoetic, Reproductive
1271	HLMCT95	Cancer
1272	HLMDD65	Cancer
1273	HLMDH01	Immune/Hematopoetic
1274	HLMDU23	Immune/Hematopoetic
1275	HLMFB62	Immune/Hematopoetic
1276	HLMFG52	Immune/Hematopoetic
1277	HLMFU53	Cancer
1278	HLMHG68	Cancer
1279	HLMHN06	Immune/Hematopoetic, Neural/Sensory
1280	HLMHS15	Immune/Hematopoetic
1281	HLMIM84	Cancer
1282	HLMIN52	Cancer
1283	HLMIQ83	Immune/Hematopoetic
1284	HLMIW76	Immune/Hematopoetic
1285	HLMMA65	Immune/Hematopoetic

1286	HLMMT12	Digestive, Immune/Hematopoietic
1287	HLMNA19	Cardiovascular, Immune/Hematopoietic
1288	HLQAD72	Cancer
1289	HLQAM30	Cancer
1290	HLQAM59	Digestive
1291	HLQBB23	Cancer
1292	HLQBF05	Digestive, Reproductive
1293	HLQBX64	Cancer
1294	HLQCY09	Digestive
1295	HLQCZ43	Cancer
1296	HLQCZ80	Digestive
1297	HLQDK45	Digestive
1298	HLQDM47	Digestive
1299	HLQDU77	Cancer
1300	HLSAD72	Connective/Epithelial
1301	HLTCJ67	Immune/Hematopoietic
1302	HLTCM28	Immune/Hematopoietic, Respiratory
1303	HLTCO22	Cancer
1304	HLTDA14	Immune/Hematopoietic
1305	HLTDC26	Cancer
1306	HLTDC26	Cancer
1307	HLTDI20	Cancer
1308	HLTDI65	Immune/Hematopoietic
1309	HLTDK30	Cancer
1310	HLTDL37	Cancer
1311	HLTDU35	Cancer
1312	HLTDX04	Cancer
1313	HLTEH84	Cancer
1314	HLTEL39	Cardiovascular, Immune/Hematopoietic
1315	HLTEN11	Cancer
1316	HLTEW52	Immune/Hematopoietic
1317	HLTEZ36	Cancer
1318	HLTGG14	Cancer
1319	HLUAF94	Immune/Hematopoietic
1320	HLWAH33	Mixed Fetal, Reproductive
1321	HLWAO11	Cancer
1322	HLWAW73	Cancer
1323	HLWAX50	Cancer
1324	HLWBJ93	Cancer
1325	HLWBK16	Cardiovascular, Connective/Epithelial, Reproductive
1326	HLWCC11	Reproductive
1327	HLYAH81	Immune/Hematopoietic
1328	HLYAH92	Immune/Hematopoietic
1329	HLYAJ79	Cancer
1330	HLYAL28	Immune/Hematopoietic
1331	HLYAR30	Cancer
1332	HLYAT54	Immune/Hematopoietic
1333	HLYBC81	Connective/Epithelial, Immune/Hematopoietic, Reproductive
1334	HLYBD09	Immune/Hematopoietic

1335	HL YBL67	Immune/Hematopoetic
1336	HL YBM38	Digestive, Immune/Hematopoetic
1337	HL YBN23	Immune/Hematopoetic
1338	HL YBN71	Immune/Hematopoetic
1339	HL YBS25	Digestive, Immune/Hematopoetic, Reproductive
1340	HL YBT28	Immune/Hematopoetic
1341	HL YBU15	Immune/Hematopoetic
1342	HL YBY04	Immune/Hematopoetic
1343	HL YCE15	Digestive, Immune/Hematopoetic
1344	HL YCH04	Immune/Hematopoetic
1345	HL YCY48	Immune/Hematopoetic
1346	HL YDE38	Immune/Hematopoetic
1347	HL YDG55	Immune/Hematopoetic
1348	HL YDO73	Immune/Hematopoetic
1349	HL YEA60	Cancer
1350	HL YEJ14	Cancer
1351	HL YEJ44	Cancer
1352	HL YEU51	Immune/Hematopoetic
1353	HL YGV19	Cancer
1354	HMABK52	Immune/Hematopoetic
1355	HMACF34	Immune/Hematopoetic
1356	HMACL77	Cancer
1357	HMACT74	Immune/Hematopoetic
1358	HMADJ14	Connective/Epithelial, Immune/Hematopoetic, Musculoskeletal
1359	HMADJ74	Connective/Epithelial, Immune/Hematopoetic, Musculoskeletal
1360	HMAEA58	Cancer
1361	HMAGF01	Cancer
1362	HMAJS26	Cancer
1363	HMCED78	Cancer
1364	HMCFN86	Cancer
1365	HMCJG47	Cancer
1366	HMCCK88	Cancer
1367	HMCIH27	Cancer
1368	HMCIQ20	Cardiovascular, Immune/Hematopoetic, Neural/Sensory
1369	HMCJC19	Immune/Hematopoetic
1370	HMDAB44	Neural/Sensory
1371	HMDAE88	Neural/Sensory
1372	HMDAG62	Cancer
1373	HMDAK20	Neural/Sensory
1374	HMDAM08	Neural/Sensory
1375	HMDAM39	Neural/Sensory
1376	HMEAA41	Cancer
1377	HMECM77	Cardiovascular
1378	HMEEH21	Cardiovascular
1379	HMEET36	Cancer
1380	HMEEZ07	Cardiovascular, Reproductive
1381	HMEFB15	Cardiovascular
1382	HMEIH57	Cardiovascular,

		Immune/Hematopoietic
1383	HMEIJ21	Cancer
1384	HMEIX79	Cancer
1385	HMEJC96	Cancer
1386	HMEJD36	Cardiovascular, Endocrine, Immune/Hematopoietic
1387	HMEJK28	Cancer
1388	HMEKH55	Cancer
1389	HMEKW44	Cardiovascular, Immune/Hematopoietic, Neural/Sensory
1390	HMEKW71	Cancer
1391	HMELW26	Cancer
1392	HMGBT32	Cancer
1393	HMHBI09	Cancer
1394	HMHBI93	Cancer
1395	HMHBP74	Cancer
1396	HMIAC52	Cancer
1397	HMIAD75	Neural/Sensory
1398	HMIAG42	Cancer
1399	HMIAG55	Cancer
1400	HMIAG72	Cancer
1401	HMIAL39	Cancer
1402	HMIAO82	Cancer
1403	HMIAR42	Cancer
1404	HMIAV33	Immune/Hematopoietic, Mixed Fetal, Neural/Sensory
1405	HMIAZ24	Cancer
1406	HMIBD93	Cancer
1407	HMIBE95	Neural/Sensory
1408	HMIBG57	Immune/Hematopoietic, Neural/Sensory, Reproductive
1409	HMJAC12	Neural/Sensory
1410	HMKAN71	Cancer
1411	HMKBA33	Neural/Sensory
1412	HMKCI22	Cancer
1413	HMKCK32	Neural/Sensory
1414	HMKCP81	Cancer
1415	HMKCY49	Immune/Hematopoietic, Neural/Sensory
1416	HMKDD51	Neural/Sensory
1417	HMKDG69	Cardiovascular, Neural/Sensory
1418	HMKDM80	Neural/Sensory
1419	HMKEG88	Neural/Sensory
1420	HMMAA09	Immune/Hematopoietic
1421	HMMAK92	Immune/Hematopoietic
1422	HMMAL32	Immune/Hematopoietic
1423	HMMBD19	Immune/Hematopoietic, Reproductive
1424	HMMBF22	Immune/Hematopoietic, Reproductive
1425	HMMBH91	Immune/Hematopoietic
1426	HMMBH94	Immune/Hematopoietic
1427	HMMBK55	Immune/Hematopoietic
1428	HMMBQ31	Cardiovascular,

		Immune/Hematopoietic
1429	HMMBR63	Cancer
1430	HMMBS55	Immune/Hematopoietic, Reproductive
1431	HMMBT47	Immune/Hematopoietic
1432	HMMCD35	Immune/Hematopoietic
1433	HMMCD95	Immune/Hematopoietic, Neural/Sensory
1434	HMPAB26	Cancer
1435	HMPAP48	Immune/Hematopoietic
1436	HMQAI38	Immune/Hematopoietic, Reproductive
1437	HMQAT69	Cancer
1438	HMQBL90	Digestive, Immune/Hematopoietic
1439	HMQBV82	Immune/Hematopoietic, Musculoskeletal, Reproductive
1440	HMQCA75	Cancer
1441	HMQCB37	Cancer
1442	HMQCL80	Immune/Hematopoietic
1443	HMQCX41	Immune/Hematopoietic
1444	HMQDM09	Cancer
1445	HMQDU07	Digestive, Immune/Hematopoietic, Musculoskeletal
1446	HMSAP33	Immune/Hematopoietic
1447	HMSAZ48	Immune/Hematopoietic
1448	HMSBN18	Cancer
1449	HMSBS25	Immune/Hematopoietic
1450	HMSBU14	Immune/Hematopoietic
1451	HMSBZ10	Immune/Hematopoietic
1452	HMSCB94	Immune/Hematopoietic, Reproductive
1453	HMSCK12	Immune/Hematopoietic
1454	HMSCP63	Immune/Hematopoietic
1455	HMSCV75	Immune/Hematopoietic
1456	HMSCV85	Immune/Hematopoietic, Reproductive
1457	HMSCW44	Immune/Hematopoietic, Mixed Fetal, Neural/Sensory
1458	HMSCZ19	Cancer
1459	HMSDI67	Digestive, Immune/Hematopoietic
1460	HMSDI79	Cancer
1461	HMSDR28	Cancer
1462	HMSFT25	Immune/Hematopoietic
1463	HMSFW52	Immune/Hematopoietic
1464	HMSGT73	Immune/Hematopoietic
1465	HMSGU30	Cancer
1466	HMSHB42	Cancer
1467	HMSHB42	Cancer
1468	HMSHN72	Immune/Hematopoietic, Reproductive
1469	HMSHT29	Immune/Hematopoietic
1470	HMSHW73	Immune/Hematopoietic
1471	HMSIC48	Cardiovascular, Immune/Hematopoietic

1472	HMSII36	Immune/Hematopoetic
1473	HMSIT42	Digestive, Immune/Hematopoetic, Neural/Sensory
1474	HMSJB08	Cancer
1475	HMSJI69	Immune/Hematopoetic
1476	HMSJM20	Immune/Hematopoetic
1477	HMSJR44	Immune/Hematopoetic
1478	HMSKQ91	Immune/Hematopoetic
1479	HMSKY45	Immune/Hematopoetic
1480	HMTAF92	Cancer
1481	HMTAT36	Cancer
1482	HMUAB93	Cancer
1483	HMUAD65	Immune/Hematopoetic, Musculoskeletal
1484	HMUAT23	Cancer
1485	HMUBA47	Cancer
1486	HMUBJ22	Cancer
1487	HMUBK53	Cancer
1488	HMUBN24	Musculoskeletal
1489	HMUBO15	Cancer
1490	HMUBX48	Musculoskeletal, Reproductive
1491	HMUBY57	Cancer
1492	HMUBZ15	Cancer
1493	HMVAl15	Cancer
1494	HMVBC84	Digestive, Immune/Hematopoetic, Neural/Sensory
1495	HMVBD68	Cancer
1496	HMVCG17	Immune/Hematopoetic
1497	HMVCS92	Cancer
1498	HMVCS92	Cancer
1499	HMVDB45	Immune/Hematopoetic
1500	HMVDJ71	Cancer
1501	HMVDT89	Cancer
1502	HMVDT89	Cancer
1503	HMWAO65	Cancer
1504	HMWAO82	Immune/Hematopoetic
1505	HMWBD74	Cancer
1506	HMWBK35	Cancer
1507	HMWBK86	Immune/Hematopoetic, Mixed Fetal
1508	HMWBL38	Connective/Epithelial, Immune/Hematopoetic
1509	HMWBM48	Cancer
1510	HMWCG28	Cancer
1511	HMWCP85	Digestive, Immune/Hematopoetic
1512	HMWDG30	Cancer
1513	HMWDU20	Cancer
1514	HMWDX57	Digestive, Immune/Hematopoetic, Respiratory
1515	HMWDZ63	Immune/Hematopoetic
1516	HMWEA77	Immune/Hematopoetic
1517	HMWEC03	Cancer
1518	HMWEF46	Immune/Hematopoetic
1519	HMWEK43	Immune/Hematopoetic

1520	HMWEM23	Cancer
1521	HMWEM23	Cancer
1522	HMWER46	Cancer
1523	HMWEU96	Cancer
1524	HMWEX02	Cancer
1525	HMWFB65	Cancer
1526	HMWFD77	Immune/Hematopoietic
1527	HMWFO25	Immune/Hematopoietic
1528	HMWFO89	Cancer
1529	HMWGM41	Cancer
1530	HMWGO95	Immune/Hematopoietic
1531	HMWGV85	Cancer
1532	HMWGX42	Immune/Hematopoietic
1533	HMWHR36	Immune/Hematopoietic
1534	HMWIM55	Immune/Hematopoietic
1535	HMWIQ26	Cancer
1536	HMWIU49	Cancer
1537	HMWJJ62	Cancer
1538	HMWJJ64	Cancer
1539	HNAAD76	Digestive, Immune/Hematopoietic
1540	HNAAE24	Digestive
1541	HNALD94	Cancer
1542	HNALD94	Cancer
1543	HNDAC35	Cancer
1544	HNEAA04	Immune/Hematopoietic
1545	HNEAH26	Immune/Hematopoietic, Neural/Sensory
1546	HNEAK38	Immune/Hematopoietic
1547	HNEAK65	Cancer
1548	HNEBX72	Immune/Hematopoietic, Neural/Sensory
1549	HNEBY79	Immune/Hematopoietic
1550	HNECD52	Immune/Hematopoietic, Neural/Sensory
1551	HNECL75	Cancer
1552	HNECX90	Cancer
1553	HNECX90	Cancer
1554	HNEDA05	Immune/Hematopoietic
1555	HNEDP75	Immune/Hematopoietic
1556	HNEDQ02	Cancer
1557	HNEDU46	Cancer
1558	HNFAD50	Cancer
1559	HNFAD50	Cancer
1560	HNFAG67	Cancer
1561	HNFCJ77	Immune/Hematopoietic, Reproductive
1562	HNFCO56	Cancer
1563	HNFCY57	Connective/Epithelial, Immune/Hematopoietic, Respiratory
1564	HNFDL89	Digestive, Immune/Hematopoietic
1565	HNFDT73	Excretory, Immune/Hematopoietic, Reproductive
1566	HNFDU92	Immune/Hematopoietic
1567	HNFDY09	Digestive, Immune/Hematopoietic,

		Neural/Sensory
1568	HNFDY31	Cancer
1569	HNFEA17	Cancer
1570	HNFEF55	Cancer
1571	HNFET12	Immune/Hematopoietic
1572	HNFFR59	Immune/Hematopoietic
1573	HNFGC51	Cancer
1574	HNFGR15	Immune/Hematopoietic
1575	HNFGW37	Immune/Hematopoietic
1576	HNFGW53	Cancer
1577	HNFHA34	Cancer
1578	HNFHD58	Cancer
1579	HNFHV68	Immune/Hematopoietic
1580	HNFIE15	Cancer
1581	HNFIE29	Immune/Hematopoietic
1582	HNFIG49	Immune/Hematopoietic
1583	HNFJE27	Immune/Hematopoietic
1584	HNFJG16	Immune/Hematopoietic
1585	HNGAC71	Digestive, Immune/Hematopoietic
1586	HNGAK42	Immune/Hematopoietic
1587	HNGAL25	Immune/Hematopoietic
1588	HNGAT83	Immune/Hematopoietic
1589	HNGAX06	Cancer
1590	HNGBB09	Immune/Hematopoietic
1591	HNGBC53	Immune/Hematopoietic
1592	HNGBD94	Immune/Hematopoietic
1593	HNGBE44	Digestive, Immune/Hematopoietic
1594	HNGBE63	Immune/Hematopoietic
1595	HNGBI83	Immune/Hematopoietic
1596	HNGBJ74	Immune/Hematopoietic
1597	HNGBP30	Immune/Hematopoietic
1598	HNGBQ61	Immune/Hematopoietic
1599	HNGBS35	Immune/Hematopoietic
1600	HNGBW25	Immune/Hematopoietic
1601	HNGCF29	Immune/Hematopoietic
1602	HNGCF64	Immune/Hematopoietic
1603	HNGDF54	Cancer
1604	HNGDH22	Immune/Hematopoietic
1605	HNGDH27	Immune/Hematopoietic
1606	HNGDN07	Immune/Hematopoietic, Reproductive
1607	HNGDO65	Cancer
1608	HNGDR39	Immune/Hematopoietic
1609	HNGDW78	Immune/Hematopoietic
1610	HNGEA90	Immune/Hematopoietic
1611	HNGEC17	Immune/Hematopoietic
1612	HNGEE06	Immune/Hematopoietic
1613	HNGEF70	Immune/Hematopoietic
1614	HNGEF72	Immune/Hematopoietic
1615	HNGEI64	Immune/Hematopoietic
1616	HNGEJ33	Cancer
1617	HNGEK64	Immune/Hematopoietic
1618	HNGEN32	Immune/Hematopoietic
1619	HNGER85	Immune/Hematopoietic
1620	HNGES90	Immune/Hematopoietic
1621	HNGET33	Immune/Hematopoietic

1622	HNGEX18	Immune/Hematopoetic
1623	HNGEY45	Immune/Hematopoetic
1624	HNGEZ02	Immune/Hematopoetic, Reproductive
1625	HNGEZ90	Immune/Hematopoetic
1626	HNGFA25	Immune/Hematopoetic
1627	HNGFB05	Immune/Hematopoetic
1628	HNGFD30	Immune/Hematopoetic, Mixed Fetal
1629	HNGFD31	Immune/Hematopoetic
1630	HNGFD61	Excretory, Immune/Hematopoetic
1631	HNGFG04	Immune/Hematopoetic
1632	HNGFG74	Immune/Hematopoetic
1633	HNGFH32	Immune/Hematopoetic
1634	HNGFH83	Immune/Hematopoetic
1635	HNGFI21	Cancer
1636	HNGFM31	Immune/Hematopoetic
1637	HNGFN77	Immune/Hematopoetic
1638	HNGFQ18	Immune/Hematopoetic
1639	HNGFR54	Immune/Hematopoetic
1640	HNGFT70	Immune/Hematopoetic
1641	HNGFU70	Immune/Hematopoetic
1642	HNGFV39	Immune/Hematopoetic
1643	HNGGF13	Immune/Hematopoetic
1644	HNGGK63	Immune/Hematopoetic
1645	HNGGK65	Immune/Hematopoetic, Neural/Sensory, Reproductive
1646	HNGGL11	Immune/Hematopoetic
1647	HNGGO05	Immune/Hematopoetic
1648	HNGGS92	Immune/Hematopoetic
1649	HNGGT10	Cancer
1650	HNGGT74	Immune/Hematopoetic
1651	HNGHB89	Digestive, Immune/Hematopoetic, Reproductive
1652	HNGHD07	Immune/Hematopoetic
1653	HNGHK37	Immune/Hematopoetic
1654	HNGHM47	Immune/Hematopoetic
1655	HNGHT01	Immune/Hematopoetic, Neural/Sensory
1656	HNGHT86	Immune/Hematopoetic
1657	HNGIH40	Immune/Hematopoetic
1658	HNGIK07	Connective/Epithelial, Immune/Hematopoetic, Musculoskeletal
1659	HNGIM40	Immune/Hematopoetic
1660	HNGIM83	Immune/Hematopoetic
1661	HNGIO93	Cancer
1662	HNGIS27	Immune/Hematopoetic
1663	HNGIU16	Immune/Hematopoetic, Reproductive
1664	HNGIX91	Immune/Hematopoetic
1665	HNGJA68	Immune/Hematopoetic
1666	HNGJB57	Immune/Hematopoetic
1667	HNGJE86	Immune/Hematopoetic
1668	HNGJH26	Immune/Hematopoetic
1669	HNGJJ61	Immune/Hematopoetic

1670	HNGJL07	Immune/Hematopoetic, Neural/Sensory
1671	HNGJS66	Immune/Hematopoetic, Reproductive
1672	HNGJU60	Immune/Hematopoetic
1673	HNGKB09	Immune/Hematopoetic, Reproductive
1674	HNGKW35	Immune/Hematopoetic
1675	HNGKY94	Immune/Hematopoetic
1676	HNGLD28	Immune/Hematopoetic
1677	HNGOY36	Immune/Hematopoetic
1678	HNHAB38	Immune/Hematopoetic, Musculoskeletal
1679	HNHAC43	Cancer
1680	HNHAD34	Immune/Hematopoetic
1681	HNHAG83	Immune/Hematopoetic, Mixed Fetal, Musculoskeletal
1682	HNHAH06	Immune/Hematopoetic
1683	HNHAJ65	Immune/Hematopoetic
1684	HNHAL61	Immune/Hematopoetic
1685	HNHAP58	Cancer
1686	HNHAW34	Immune/Hematopoetic
1687	HNHAW35	Immune/Hematopoetic
1688	HNHAY26	Immune/Hematopoetic
1689	HNHAY86	Immune/Hematopoetic, Neural/Sensory
1690	HNHAZ20	Immune/Hematopoetic
1691	HNHBE21	Immune/Hematopoetic
1692	HNHBE38	Cancer
1693	HNHBG18	Immune/Hematopoetic
1694	HNHBI65	Immune/Hematopoetic
1695	HNHBM16	Immune/Hematopoetic, Neural/Sensory
1696	HNHCH78	Immune/Hematopoetic
1697	HNHCP14	Immune/Hematopoetic
1698	HNHCQ44	Immune/Hematopoetic
1699	HNHCT22	Cardiovascular, Immune/Hematopoetic
1700	HNHCT47	Cardiovascular, Immune/Hematopoetic
1701	HNHCV48	Immune/Hematopoetic
1702	HNHCZ54	Cancer
1703	HNHDC52	Immune/Hematopoetic, Neural/Sensory
1704	HNHDD95	Immune/Hematopoetic
1705	HNHDE58	Cancer
1706	HNHDI17	Immune/Hematopoetic
1707	HNHDL37	Immune/Hematopoetic
1708	HNHDM21	Immune/Hematopoetic
1709	HNHDR57	Immune/Hematopoetic
1710	HNHDR96	Immune/Hematopoetic
1711	HNH DU62	Immune/Hematopoetic
1712	HNHDW34	Immune/Hematopoetic
1713	HNHDX28	Immune/Hematopoetic
1714	HNHDZ06	Immune/Hematopoetic
1715	HNHDZ42	Immune/Hematopoetic
1716	HNHEF37	Immune/Hematopoetic
1717	HNHEF49	Immune/Hematopoetic

1718	HNHEF70	Immune/Hematopoetic
1719	HNHEG30	Immune/Hematopoetic
1720	HNHEH38	Immune/Hematopoetic
1721	HNHEL22	Immune/Hematopoetic
1722	HNHEN70	Cancer
1723	HNHEP21	Immune/Hematopoetic
1724	HNHEP41	Immune/Hematopoetic
1725	HNHES33	Immune/Hematopoetic, Reproductive
1726	HNHET16	Immune/Hematopoetic
1727	HNHEY29	Immune/Hematopoetic
1728	HNHEZ76	Immune/Hematopoetic
1729	HNHFF60	Immune/Hematopoetic
1730	HNHFF81	Immune/Hematopoetic, Neural/Sensory
1731	HNHFI49	Immune/Hematopoetic
1732	HNHFR42	Immune/Hematopoetic
1733	HNHFX25	Immune/Hematopoetic, Musculoskeletal
1734	HNHGD95	Cardiovascular, Immune/Hematopoetic
1735	HNHGR82	Immune/Hematopoetic
1736	HNHGS62	Immune/Hematopoetic
1737	HNHGY77	Cancer
1738	HNHHA47	Digestive, Immune/Hematopoetic, Respiratory
1739	HNHHN22	Immune/Hematopoetic
1740	HNHHW53	Immune/Hematopoetic
1741	HNHIB40	Immune/Hematopoetic
1742	HNHKI74	Immune/Hematopoetic
1743	HNHKV56	Immune/Hematopoetic
1744	HNHLD80	Immune/Hematopoetic
1745	HNHLS76	Immune/Hematopoetic
1746	HNHLZ47	Immune/Hematopoetic
1747	HNHMP15	Immune/Hematopoetic
1748	HNHMP62	Immune/Hematopoetic
1749	HNHMY76	Immune/Hematopoetic, Reproductive
1750	HNHMY01	Immune/Hematopoetic
1751	HNHND14	Immune/Hematopoetic
1752	HNHND94	Immune/Hematopoetic
1753	HNHOF09	Immune/Hematopoetic
1754	HNKAA76	Cancer
1755	HNTAF42	Cancer
1756	HNTCG32	Cancer
1757	HNTNY89	Cancer
1758	HNTRB25	Cancer
1759	HNTRQ40	Cancer
1760	HNTSQ23	Cancer
1761	HOAAH51	Cancer
1762	HOAAI76	Cancer
1763	HOAAJ09	Cancer
1764	HOAAL10	Musculoskeletal
1765	HOAAU13	Mixed Fetal, Musculoskeletal
1766	HOABC12	Cancer
1767	HOABH36	Cancer
1768	HOBNA89	Musculoskeletal

1769	HOBNF51	Cancer
1770	HODAH24	Reproductive
1771	HODAH46	Cancer
1772	HODAV25	Cancer
1773	HODAW64	Cardiovascular, Neural/Sensory, Reproductive
1774	HODAY17	Cancer
1775	HODBA45	Reproductive
1776	HODBC79	Cancer
1777	HODBD79	Immune/Hematopoetic, Reproductive
1778	HODBF12	Cancer
1779	HODBF86	Digestive, Reproductive
1780	HODBF91	Cancer
1781	HODBW34	Digestive, Immune/Hematopoetic, Reproductive
1782	HODBX93	Reproductive
1783	HODBZ06	Cancer
1784	HODCA73	Cancer
1785	HODCV86	Immune/Hematopoetic, Reproductive
1786	HODCY44	Reproductive
1787	HODDB58	Neural/Sensory, Reproductive
1788	HODDG72	Cancer
1789	HODDJ25	Cancer
1790	HODDN21	Reproductive
1791	HODDO31	Reproductive
1792	HODDQ06	Cancer
1793	HODEA20	Cancer
1794	HODEM38	Digestive, Immune/Hematopoetic, Reproductive
1795	HODET37	Reproductive
1796	HOEBI94	Cancer
1797	HOEBJ70	Cancer
1798	HOECB33	Cancer
1799	HOECX21	Cancer
1800	HOEDE27	Musculoskeletal
1801	HOEEK81	Cancer
1802	HOEEZ62	Musculoskeletal
1803	HOEFJ26	Cancer
1804	HOEFL74	Cardiovascular, Digestive, Musculoskeletal
1805	HOFMF63	Cancer
1806	HOFMJ65	Cancer
1807	HOFMK02	Immune/Hematopoetic, Reproductive
1808	HOFMO16	Reproductive
1809	HOFMP62	Reproductive
1810	HOFMT59	Reproductive
1811	HOFMV22	Reproductive
1812	HOFND06	Digestive, Reproductive
1813	HOFNY15	Reproductive

1814	HOFNY28	Reproductive
1815	HOFOC41	Reproductive
1816	HOGAA41	Cancer
1817	HOGAB51	Immune/Hematopoetic, Reproductive
1818	HOGAH40	Cancer
1819	HOGAP06	Immune/Hematopoetic, Reproductive
1820	HOGAR36	Reproductive
1821	HOGAR71	Cancer
1822	HOGCC26	Cancer
1823	HOGCD78	Reproductive
1824	HOGCK03	Cancer
1825	HOGCL01	Cancer
1826	HOHBB36	Cancer
1827	HOHBC57	Cancer
1828	HOHBO66	Cancer
1829	HOHBZ10	Cancer
1830	HOHCH71	Cancer
1831	HOHEB48	Musculoskeletal
1832	HONAH67	Digestive, Excretory, Reproductive
1833	HOOAC84	Immune/Hematopoetic, Neural/Sensory, Reproductive
1834	HOPBP13	Cancer
1835	HOQBG21	Cancer
1836	HORBI80	Cancer
1837	HORBL77	Cancer
1838	HOSBX14	Immune/Hematopoetic, Musculoskeletal, Reproductive
1839	HOSCZ41	Cancer
1840	HOSEM81	Cancer
1841	HOSEO83	Cancer
1842	HOSFR35	Cancer
1843	HOUAZ32	Cancer
1844	HOUBC29	Connective/Epithelial, Immune/Hematopoetic, Reproductive
1845	HOUBG39	Connective/Epithelial, Immune/Hematopoetic, Musculoskeletal
1846	HOUCD12	Connective/Epithelial
1847	HOUIDB17	Connective/Epithelial
1848	HOUDX40	Connective/Epithelial
1849	HOUEF84	Cancer
1850	HOUEJ43	Connective/Epithelial
1851	HOUGS36	Connective/Epithelial
1852	HOUHQ36	Connective/Epithelial
1853	HOUIG68	Cancer
1854	HOUIG92	Cancer
1855	HOVAD93	Reproductive
1856	HOVAE10	Cancer
1857	HOVAE36	Reproductive
1858	HOVAE82	Immune/Hematopoetic, Reproductive
1859	HOVAJ68	Reproductive

1860	HOVAW46	Musculoskeletal, Reproductive
1861	HOVBB19	Musculoskeletal, Reproductive
1862	HOVBD31	Cancer
1863	HOVBE81	Reproductive
1864	HOVBI16	Cancer
1865	HOVBS68	Cancer
1866	HOVCC73	Immune/Hematopoetic, Reproductive
1867	HOVCF30	Immune/Hematopoetic, Reproductive
1868	HOVCJ71	Reproductive
1869	HOVCN53	Reproductive
1870	HOVCO53	Reproductive
1871	HPASF94	Cancer
1872	HPBCG26	Cancer
1873	HPBCT11	Reproductive
1874	HPBDE33	Cancer
1875	HPBDE33	Cancer
1876	HPBDF31	Cancer
1877	HPCAG17	Immune/Hematopoetic, Reproductive
1878	HPCAG17	Immune/Hematopoetic, Reproductive
1879	HPCAM02	Immune/Hematopoetic, Musculoskeletal, Reproductive
1880	HPDDQ17	Endocrine
1881	HPDDQ28	Endocrine, Musculoskeletal
1882	HPDDT14	Cancer
1883	HPEAA65	Digestive, Immune/Hematopoetic, Reproductive
1884	HPEAG24	Cancer
1885	HPEBA84	Immune/Hematopoetic, Reproductive
1886	HPEBF91	Cancer
1887	HPEBI09	Digestive, Reproductive
1888	HPFCJ75	Cancer
1889	HPFCP75	Immune/Hematopoetic, Neural/Sensory, Reproductive
1890	HPFDB66	Cancer
1891	HPFDD28	Reproductive
1892	HPFDI47	Digestive, Reproductive
1893	HPIAF35	Reproductive
1894	HPIAK27	Cancer
1895	HPIAL55	Cancer
1896	HPIAT18	Cancer
1897	HPIAZ52	Reproductive
1898	HPIBA07	Cancer
1899	HPIBA24	Cancer
1900	HPIBI40	Cancer
1901	HPIBT19	Reproductive
1902	HPJAA82	Reproductive

1903	HPJAB75	Cancer
1904	HPJAN76	Cancer
1905	HPJAN76	Cancer
1906	HPJAU94	Immune/Hematopoetic, Reproductive
1907	HPJAW78	Immune/Hematopoetic, Musculoskeletal, Reproductive
1908	HPJBS16	Connective/Epithelial, Reproductive
1909	HPJBU04	Immune/Hematopoetic, Reproductive
1910	HPJCN83	Reproductive
1911	HPJCP75	Reproductive
1912	HPJCV35	Reproductive
1913	HPJCX13	Cancer
1914	HPLAW13	Cancer
1915	HPMAI31	Cancer
1916	HPMBI91	Reproductive
1917	HPMBT05	Reproductive
1918	HPMBW95	Cancer
1919	HPMCW10	Cancer
1920	HPMCZ18	Cancer
1921	HPMDA80	Cancer
1922	HPMDD27	Cancer
1923	HPMDF45	Excretory, Immune/Hematopoetic, Reproductive
1924	HPMDP57	Immune/Hematopoetic, Musculoskeletal, Reproductive
1925	HPMEG72	Cancer
1926	HPMFM70	Immune/Hematopoetic, Neural/Sensory, Reproductive
1927	HPMFP48	Cancer
1928	HPMFW01	Cancer
1929	HPMGM06	Digestive, Neural/Sensory, Reproductive
1930	HPMGW43	Cancer
1931	HPMGY89	Cancer
1932	HPMKB09	Cancer
1933	HPMSH26	Cancer
1934	HPMSH96	Mixed Fetal, Reproductive
1935	HPQAJ25	Cardiovascular, Digestive, Mixed Fetal
1936	HPQAJ27	Cancer
1937	HPQAN50	Reproductive
1938	HPQAO80	Cancer
1939	HPQAW27	Cancer
1940	HPQBC90	Cancer
1941	HPQBJ48	Cancer
1942	HPQBJ48	Cancer
1943	HPQBL67	Cancer
1944	HPQBT17	Cancer
1945	HPQCF94	Cancer

1946	HPQCI62	Cancer
1947	HPQRS74	Cancer
1948	HPRAD30	Cancer
1949	HPRCC91	Cancer
1950	HPRCF40	Cancer
1951	HPRCF50	Cancer
1952	HPRCL58	Reproductive
1953	HPRCM72	Cancer
1954	HPRCS59	Reproductive
1955	HPRCT73	Cancer
1956	HPRTH56	Cancer
1957	HPTRE80	Cancer
1958	HPTRI42	Cancer
1959	HPTRL95	Cancer
1960	HPTRQ52	Cancer
1961	HPTTH35	Cancer
1962	HPTTI65	Endocrine, Reproductive
1963	HPTTT62	Cancer
1964	HPTVH24	Cancer
1965	HPTVH59	Endocrine, Neural/Sensory
1966	HPTVI04	Cancer
1967	HPTVI96	Cancer
1968	HPVAA15	Cancer
1969	HPVAB20	Cancer
1970	HPVAB63	Cancer
1971	HPVAF86	Reproductive
1972	HPWAH55	Digestive
1973	HPWAO89	Immune/Hematopoietic, Reproductive
1974	HPWAS27	Cancer
1975	HPWAT86	Immune/Hematopoietic, Neural/Sensory, Reproductive
1976	HPWAV82	Reproductive
1977	HPWBA36	Reproductive
1978	HPWTF23	Cancer
1979	HPWTF23	Cancer
1980	HPWTF53	Cancer
1981	HPXAB56	Immune/Hematopoietic
1982	HPZAB75	Digestive, Reproductive
1983	HRAAB26	Excretory
1984	HRAAC36	Excretory, Immune/Hematopoietic
1985	HRAAF59	Excretory
1986	HRAAG89	Cancer
1987	HRAAO40	Excretory
1988	HRAAZ12	Cancer
1989	HRABA19	Excretory, Reproductive
1990	HRABP28	Excretory, Immune/Hematopoietic
1991	HRABU56	Cardiovascular, Excretory, Musculoskeletal
1992	HRABZ80	Excretory, Immune/Hematopoietic,

		Musculoskeletal
1993	HRACB01	Excretory
1994	HRACI39	Excretory
1995	HRADU15	Excretory
1996	HRDAH04	Immune/Hematopoietic, Mixed Fetal, Musculoskeletal
1997	HRDBA20	Musculoskeletal
1998	HRDBD32	Musculoskeletal
1999	HRDBL01	Mixed Fetal, Musculoskeletal, Neural/Sensory
2000	HRDDM85	Musculoskeletal
2001	HRDDS22	Cancer
2002	HRDEJ86	Cancer
2003	HRDEQ34	Musculoskeletal
2004	HRDFE30	Cancer
2005	HRDFT83	Musculoskeletal
2006	HRGCA01	Musculoskeletal
2007	HRGCA06	Cancer
2008	HRGSE38	Cancer
2009	HRLAT43	Cancer
2010	HRLME03	Cancer
2011	HROAN20	Cardiovascular, Digestive
2012	HROAP64	Digestive
2013	HROAS35	Digestive
2014	HROAY16	Digestive
2015	HROBJ10	Cancer
2016	HROBW46	Digestive, Immune/Hematopoietic
2017	HRODG86	Cancer
2018	HRSAL26	Cancer
2019	HRTAE88	Digestive
2020	HRTAP63	Cancer
2021	HRTAR24	Digestive, Immune/Hematopoietic
2022	HSAAN03	Cancer
2023	HSAAS05	Immune/Hematopoietic, Neural/Sensory
2024	HSAAW13	Cancer
2025	HSABA15	Cancer
2026	HSABG81	Cancer
2027	HSATA50	Cardiovascular, Immune/Hematopoietic, Musculoskeletal
2028	HSATA61	Cancer
2029	HSATG66	Cancer
2030	HSATI91	Immune/Hematopoietic
2031	HSATR50	Digestive, Immune/Hematopoietic, Reproductive
2032	HSATT82	Immune/Hematopoietic
2033	HSATW19	Immune/Hematopoietic, Musculoskeletal
2034	HSATW67	Excretory, Immune/Hematopoietic, Reproductive
2035	HSATZ02	Immune/Hematopoietic,

		Musculoskeletal
2036	HSAUA95	Immune/Hematopoietic
2037	HSAUB89	Cancer
2038	HSAUI53	Immune/Hematopoietic
2039	HSAUV74	Cancer
2040	HSAUX39	Immune/Hematopoietic
2041	HSAVA58	Immune/Hematopoietic, Mixed Fetal
2042	HSAVE52	Immune/Hematopoietic
2043	HSAVH32	Immune/Hematopoietic
2044	HSAVM49	Immune/Hematopoietic
2045	HSAVO11	Immune/Hematopoietic, Neural/Sensory
2046	HSAVO17	Immune/Hematopoietic, Musculoskeletal
2047	HSAVQ13	Immune/Hematopoietic
2048	HSAVR85	Cancer
2049	HSAVY92	Immune/Hematopoietic, Neural/Sensory
2050	HSAVZ05	Digestive, Immune/Hematopoietic
2051	HSAWB58	Immune/Hematopoietic
2052	HSAWH36	Immune/Hematopoietic
2053	HSAWM20	Immune/Hematopoietic
2054	HSAWM74	Cancer
2055	HSAWX70	Cancer
2056	HSAXC22	Immune/Hematopoietic
2057	HSAXI10	Digestive, Immune/Hematopoietic
2058	HSAXL49	Immune/Hematopoietic
2059	HSAXL82	Immune/Hematopoietic
2060	HSAXN57	Immune/Hematopoietic
2061	HSAXO45	Immune/Hematopoietic
2062	HSAXS06	Immune/Hematopoietic, Reproductive
2063	HSAXS22	Immune/Hematopoietic
2064	HSAYL24	Immune/Hematopoietic
2065	HSAYO82	Endocrine, Immune/Hematopoietic
2066	HSAYR62	Cancer
2067	HSAZP90	Immune/Hematopoietic
2068	HSBAJ47	Cancer
2069	HSDBI90	Digestive, Endocrine, Neural/Sensory
2070	HSDDC55	Neural/Sensory
2071	HSDEA26	Neural/Sensory
2072	HSDEY39	Neural/Sensory
2073	HSDF72	Cancer
2074	HSDFO08	Neural/Sensory
2075	HSDFR10	Digestive, Neural/Sensory, Reproductive
2076	HSDGB20	Neural/Sensory
2077	HSDGH56	Cancer
2078	HSDGM01	Neural/Sensory
2079	HSDGM42	Cancer
2080	HSDGM42	Cancer
2081	HSDGM42	Cancer

2082	HSDGM42	Cancer
2083	HSDGM42	Cancer
2084	HSDGM42	Cancer
2085	HSDHD05	Neural/Sensory
2086	HSDIE51	Cancer
2087	HSDIK31	Cancer
2088	HSDIV37	Cancer
2089	HSDJC96	Cancer
2090	HSDJE77	Cardiovascular, Immune/Hematopoietic, Neural/Sensory
2091	HSDJF04	Cancer
2092	HSDJG47	Cancer
2093	HSDJH72	Connective/Epithelial, Excretory, Neural/Sensory
2094	HSDJL07	Neural/Sensory, Reproductive
2095	HSDJR49	Neural/Sensory
2096	HSDJV24	Cancer
2097	HSDJV40	Immune/Hematopoietic, Neural/Sensory
2098	HSDKA64	Immune/Hematopoietic, Neural/Sensory
2099	HSDKE82	Neural/Sensory
2100	HSDKF96	Neural/Sensory
2101	HSDZO08	Cancer
2102	HSDZQ96	Neural/Sensory
2103	HSEBB18	Cancer
2104	HSFAM19	Cancer
2105	HSHAG54	Cancer
2106	HSHAS72	Cancer
2107	HSHAX04	Cancer
2108	HSHBT15	Cancer
2109	HSHCE85	Cancer
2110	HSIAC81	Digestive
2111	HSIAF66	Digestive
2112	HSIAP01	Digestive, Reproductive
2113	HSIDA33	Cancer
2114	HSIDA39	Digestive
2115	HSIDZ25	Cancer
2116	HSIEB64	Digestive
2117	HSIEM18	Cancer
2118	HSIFO61	Cancer
2119	HSIFO61	Cancer
2120	HSIGC63	Digestive, Immune/Hematopoietic, Reproductive
2121	HSIGM95	Digestive, Immune/Hematopoietic
2122	HSJAE76	Cancer
2123	HSJAN83	Digestive, Musculoskeletal
2124	HSJAQ10	Cancer
2125	HSJAR59	Musculoskeletal
2126	HSJAU93	Cancer
2127	HSJAY14	Cancer
2128	HSJAY14	Cancer

2129	HSJAY14	Cancer
2130	HSJAY14	Cancer
2131	HSJBB27	Musculoskeletal
2132	HSKBU03	Musculoskeletal, Neural/Sensory
2133	HSKCQ51	Cancer
2134	HSKDE13	Cancer
2135	HSKDS47	Cancer
2136	HSKHV81	Musculoskeletal
2137	HSKXB14	Cancer
2138	HSKYR49	Cancer
2139	HSKYU81	Cancer
2140	HSKYY92	Musculoskeletal
2141	HSLAB11	Cancer
2142	HSLAS96	Immune/Hematopoetic, Musculoskeletal
2143	HSLAW59	Immune/Hematopoetic, Musculoskeletal
2144	HSLCH54	Cancer
2145	HSLCH57	Cancer
2146	HSLCI86	Endocrine, Mixed Fetal, Musculoskeletal
2147	HSLCS31	Cancer
2148	HSLCS34	Cancer
2149	HSLCV16	Cancer
2150	HSLDW54	Cancer
2151	HSLEC18	Cancer
2152	HSLEG59	Musculoskeletal
2153	HSLFR59	Cancer
2154	HSLGD91	Cancer
2155	HSLGF66	Cancer
2156	HSLGF70	Musculoskeletal, Neural/Sensory
2157	HSLGP68	Musculoskeletal, Neural/Sensory
2158	HSNAB88	Cancer
2159	HSNAH56	Cancer
2160	HSNAN38	Cancer
2161	HSNAO19	Cancer
2162	HSNAQ52	Cancer
2163	HSNAT08	Cancer
2164	HSNAW06	Immune/Hematopoetic
2165	HSNAW37	Cancer
2166	HSNBJ05	Cancer
2167	HSNBO90	Cancer
2168	HSNBQ36	Cancer
2169	HSNBS39	Cancer
2170	HSOAE34	Digestive, Immune/Hematopoetic
2171	HSOAT44	Cancer
2172	HSOBB94	Cancer
2173	HSOBH11	Digestive
2174	HSOBP75	Cancer
2175	HSOBW65	Digestive
2176	HSPAA89	Digestive
2177	HSPAC13	Cancer
2178	HSPAG75	Digestive
2179	HSPAI20	Digestive,

		Neural/Sensory
2180	HSPAL59	Digestive, Immune/Hematopoetic
2181	HSPAY90	Cancer
2182	HSPMF63	Cancer
2183	HSQAC69	Cancer
2184	HSQAH14	Cancer
2185	HSQAX94	Cancer
2186	HSQBL20	Cancer
2187	HSQCQ45	Cancer
2188	HSQCY74	Cancer
2189	HSQDM74	Cancer
2190	HSQEG23	Cancer
2191	HSQEG47	Cancer
2192	HSQFE72	Cancer
2193	HSQFE76	Cancer
2194	HSQFV12	Cancer
2195	HSRAA81	Cancer
2196	HSRAO56	Cancer
2197	HSRAV28	Digestive, Musculoskeletal
2198	HSRDM56	Cancer
2199	HSRDW57	Cancer
2200	HSREC72	Immune/Hematopoetic, Musculoskeletal
2201	HSREG42	Cancer
2202	HSRFD18	Cancer
2203	HSRGZ11	Cancer
2204	HSRHB59	Cancer
2205	HSSAN03	Cancer
2206	HSSCC66	Musculoskeletal
2207	HSSDI13	Musculoskeletal
2208	HSSDQ20	Musculoskeletal, Neural/Sensory
2209	HSSDX38	Musculoskeletal
2210	HSSD57	Cancer
2211	HSSSEL28	Cancer
2212	HSSFP88	Cancer
2213	HSSGS62	Musculoskeletal, Reproductive
2214	HSSJA23	Cancer
2215	HSSJF26	Musculoskeletal
2216	HSSJF96	Musculoskeletal
2217	HSSJM47	Cancer
2218	HSSJW30	Cancer
2219	HSSJW30	Cancer
2220	HSSJW30	Cancer
2221	HSSMY35	Cancer
2222	HSTAL93	Connective/Epithelial
2223	HSTBG23	Connective/Epithelial
2224	HSUAF06	Immune/Hematopoetic
2225	HSUBX67	Immune/Hematopoetic
2226	HSUSB73	Immune/Hematopoetic, Reproductive
2227	HSVAC05	Cancer
2228	HSVAE42	Connective/Epithelial, Neural/Sensory
2229	HSVAL83	Cancer

2230	HSVAT36	Immune/Hematopoietic
2231	HSVAV02	Cancer
2232	HSVBA83	Endocrine, Mixed Fetal
2233	HSVBD37	Cancer
2234	HSVBN46	Cancer
2235	HSVBY62	Cancer
2236	HSVBZ53	Cancer
2237	HSVCF53	Cardiovascular, Neural/Sensory, Reproductive
2238	HSWAZ17	Connective/Epithelial, Reproductive, Respiratory
2239	HSWBI16	Cancer
2240	HSXAI44	Neural/Sensory
2241	HSXAJ07	Neural/Sensory
2242	HSXAS59	Neural/Sensory
2243	HSXAX20	Digestive, Mixed Fetal, Neural/Sensory
2244	HSXAY60	Cancer
2245	HSXBB78	Neural/Sensory
2246	HSXCA83	Cancer
2247	HSXCX20	Cancer
2248	HSXFG21	Cancer
2249	HSXFH82	Cancer
2250	HSYBD33	Immune/Hematopoietic
2251	HSYBR79	Cancer
2252	HSYBV44	Immune/Hematopoietic
2253	HSYBZ94	Cancer
2254	HT3AB13	Cancer
2255	HT4SB02	Immune/Hematopoietic
2256	HT4SB37	Cardiovascular, Immune/Hematopoietic, Reproductive
2257	HT4SB81	Cancer
2258	HT4SB81	Cancer
2259	HT4SB81	Cancer
2260	HT5FX76	Cancer
2261	HTABF81	Cancer
2262	HTACX63	Immune/Hematopoietic
2263	HTADC63	Cancer
2264	HTADO61	Cancer
2265	HTADQ22	Cancer
2266	HTAEC59	Cancer
2267	HTAED89	Immune/Hematopoietic
2268	HTAEF02	Immune/Hematopoietic
2269	HTAEH58	Immune/Hematopoietic
2270	HTAEO35	Immune/Hematopoietic
2271	HTDAF68	Immune/Hematopoietic
2272	HTDAI38	Cancer
2273	HTEAJ87	Mixed Fetal, Neural/Sensory, Reproductive
2274	HTEAN76	Cancer
2275	HTEBL56	Cancer
2276	HTECE87	Cancer
2277	HTEDF78	Reproductive

2278	HTEDT87	Cancer
2279	HTEDX05	Cancer
2280	HTEEC19	Cancer
2281	HTEGH03	Cancer
2282	HTEGH03	Cancer
2283	HTEGS48	Reproductive
2284	HTEGY81	Cancer
2285	HTEHB11	Reproductive
2286	HTEHB49	Immune/Hematopoetic, Reproductive
2287	HTEHS91	Cancer
2288	HTEHV60	Reproductive
2289	HTEHW80	Reproductive
2290	HTEID25	Reproductive
2291	HTEIJ23	Cancer
2292	HTEIM62	Digestive, Immune/Hematopoetic, Reproductive
2293	HTEIV33	Reproductive
2294	HTEIV65	Reproductive
2295	HTEJC50	Reproductive
2296	HTEJD20	Cancer
2297	HTEJD61	Reproductive
2298	HTEJF31	Reproductive
2299	HTEJI29	Reproductive
2300	HTEJL16	Reproductive
2301	HTEJP65	Cancer
2302	HTEJY20	Cancer
2303	HTEKD35	Reproductive
2304	HTEKP82	Cardiovascular, Mixed Fetal, Reproductive
2305	HTEKV69	Reproductive
2306	HTEKZ52	Reproductive
2307	HTEQG28	Immune/Hematopoetic, Reproductive
2308	HTFOB75	Cancer
2309	HTGAA35	Immune/Hematopoetic
2310	HTGAD74	Immune/Hematopoetic, Reproductive
2311	HTGAP05	Immune/Hematopoetic, Neural/Sensory
2312	HTGAQ29	Immune/Hematopoetic
2313	HTGAR21	Immune/Hematopoetic
2314	HTGAS70	Cancer
2315	HTGAT65	Immune/Hematopoetic, Neural/Sensory, Reproductive
2316	HTGAU17	Immune/Hematopoetic
2317	HTGBF47	Immune/Hematopoetic
2318	HTGBK95	Cancer
2319	HTGCC01	Immune/Hematopoetic
2320	HTGCK43	Cancer
2321	HTGDS43	Immune/Hematopoetic, Neural/Sensory
2322	HTGDS92	Cancer
2323	HTGEX34	Digestive, Immune/Hematopoetic
2324	HTGFM31	Immune/Hematopoetic

2325	HTGGM37	Digestive, Immune/Hematopoetic
2326	HTGGN22	Immune/Hematopoetic
2327	HTHAA41	Cancer
2328	HTHBC58	Digestive, Immune/Hematopoetic
2329	HTHBO72	Cancer
2330	HTHBQ29	Immune/Hematopoetic
2331	HTHBT76	Cancer
2332	HTHBZ91	Immune/Hematopoetic
2333	HTHCA30	Cancer
2334	HTHCM60	Immune/Hematopoetic
2335	HTHDB20	Immune/Hematopoetic
2336	HTHDF45	Immune/Hematopoetic
2337	HTHDF86	Immune/Hematopoetic
2338	HTHDH18	Immune/Hematopoetic
2339	HTHDP65	Cancer
2340	HTHDT25	Immune/Hematopoetic
2341	HTHDV50	Immune/Hematopoetic
2342	HTJMA64	Cancer
2343	HTJMJ72	Connective/Epithelial, Immune/Hematopoetic
2344	HTLAD74	Reproductive
2345	HTLAF81	Cancer
2346	HTLBF46	Cancer
2347	HTLBF63	Cancer
2348	HTLCX82	Cancer
2349	HTLDD89	Reproductive
2350	HTLDN34	Reproductive
2351	HTLDP19	Cancer
2352	HTLDY30	Cancer
2353	HTLEJ24	Cancer
2354	HTLEJ75	Cancer
2355	HTLEJ75	Cancer
2356	HTLEP55	Cancer
2357	HTLEV80	Cancer
2358	HTLEZ57	Cancer
2359	HTLFA90	Cancer
2360	HTLGL33	Reproductive
2361	HTLGQ25	Reproductive
2362	HTLGS72	Reproductive
2363	HTLGY50	Cancer
2364	HTLHN86	Cancer
2365	HTLHN86	Cancer
2366	HTLHN86	Cancer
2367	HTLHN86	Cancer
2368	HTLIW29	Cancer
2369	HTLJC15	Cancer
2370	HTNAL14	Cancer
2371	HTNAL34	Endocrine, Reproductive
2372	HTNBJ15	Cancer
2373	HTNBJ15	Cancer
2374	HTNBJ15	Cancer
2375	HTNBJ15	Cancer
2376	HTOAC65	Immune/Hematopoetic
2377	HTOAE47	Immune/Hematopoetic
2378	HTOAK03	Cancer

2379	HTOAO58	Immune/Hematopoetic
2380	HTOAT56	Cancer
2381	HTOBG07	Immune/Hematopoetic, Musculoskeletal
2382	HTOBG62	Immune/Hematopoetic
2383	HTODA92	Cancer
2384	HTODN35	Immune/Hematopoetic
2385	HTODO45	Immune/Hematopoetic
2386	HTOEA53	Digestive, Excretory, Immune/Hematopoetic
2387	HTOEB55	Cancer
2388	HTOEB76	Immune/Hematopoetic
2389	HTOET03	Cancer
2390	HTOET03	Cancer
2391	HTOEV01	Immune/Hematopoetic, Reproductive
2392	HTOFA11	Cancer
2393	HTOFC33	Immune/Hematopoetic
2394	HTOGB79	Cancer
2395	HTOHE22	Immune/Hematopoetic
2396	HTOHG63	Cancer
2397	HTOHJ93	Immune/Hematopoetic
2398	HTOHM12	Immune/Hematopoetic, Neural/Sensory
2399	HTOHM82	Cancer
2400	HTOHN40	Immune/Hematopoetic, Neural/Sensory
2401	HTOHR59	Digestive, Immune/Hematopoetic, Neural/Sensory
2402	HTOHS29	Cancer
2403	HTOID65	Cancer
2404	HTOIE17	Excretory, Immune/Hematopoetic
2405	HTOIG16	Immune/Hematopoetic, Reproductive
2406	HTOIH39	Immune/Hematopoetic
2407	HTOIH51	Immune/Hematopoetic
2408	HTOJB02	Immune/Hematopoetic
2409	HTOJJ26	Connective/Epithelial, Digestive, Immune/Hematopoetic
2410	HTOJP25	Immune/Hematopoetic
2411	HTOJS23	Immune/Hematopoetic
2412	HTOJY56	Cancer
2413	HTOJZ18	Immune/Hematopoetic
2414	HTPCG10	Cancer
2415	HTPCO75	Cancer
2416	HTPCW21	Digestive, Neural/Sensory
2417	HTPDD68	Cancer
2418	HTPDV75	Digestive, Reproductive
2419	HTSER28	Cancer
2420	HTSET62	Cancer
2421	HTSFV18	Cancer
2422	HTSGO13	Cancer
2423	HTSGO88	Immune/Hematopoetic

2424	HTTAH05	Reproductive
2425	HTTAP37	Immune/Hematopoetic, Reproductive
2426	HTTBJ38	Cancer
2427	HTTDB11	Cancer
2428	HTTDG27	Reproductive
2429	HTTDN24	Cancer
2430	HTTDO33	Cancer
2431	HTTDT67	Cancer
2432	HTTEO25	Cancer
2433	HTTEP11	Neural/Sensory, Reproductive
2434	HTTES77	Cancer
2435	HTTFD29	Reproductive
2436	HTTFG15	Cancer
2437	HTWAM19	Immune/Hematopoetic
2438	HTWBF58	Immune/Hematopoetic
2439	HTWBO30	Cancer
2440	HTWBZ57	Cancer
2441	HTWCC10	Immune/Hematopoetic
2442	HTWCE14	Cancer
2443	HTWCT76	Digestive, Immune/Hematopoetic
2444	HTWDJ17	Cancer
2445	HTWDM89	Immune/Hematopoetic
2446	HTWEA05	Immune/Hematopoetic
2447	HTWEG06	Immune/Hematopoetic
2448	HTWEQ36	Cancer
2449	HTWFA21	Immune/Hematopoetic
2450	HTWFA88	Digestive, Immune/Hematopoetic
2451	HTWFM85	Cancer
2452	HTWFO43	Cancer
2453	HTWLG39	Cancer
2454	HTXAA20	Cancer
2455	HTXAD75	Cancer
2456	HTXAR92	Immune/Hematopoetic
2457	HTXBS38	Cancer
2458	HTXBU88	Immune/Hematopoetic
2459	HTXCP27	Cancer
2460	HTXCU30	Excretory, Immune/Hematopoetic
2461	HTXCV44	Immune/Hematopoetic, Neural/Sensory
2462	HTXDJ21	Immune/Hematopoetic
2463	HTXDJ75	Digestive, Immune/Hematopoetic, Mixed Fetal
2464	HTXDJ85	Immune/Hematopoetic
2465	HTXDK09	Cancer
2466	HTXDO17	Immune/Hematopoetic, Neural/Sensory, Respiratory
2467	HTXDT72	Cancer
2468	HTXDU08	Cancer
2469	HTXDZ68	Immune/Hematopoetic, Musculoskeletal
2470	HTXEN33	Immune/Hematopoetic, Reproductive

2471	HTXES13	Cancer
2472	HTXFD86	Cancer
2473	HTXGK12	Cancer
2474	HTXGL32	Immune/Hematopoietic
2475	HTXJD08	Digestive, Immune/Hematopoietic
2476	HTXJD85	Immune/Hematopoietic
2477	HTXJE12	Cancer
2478	HTXJI59	Cancer
2479	HTXJJ92	Cancer
2480	HTXJM94	Cancer
2481	HTXJV54	Digestive, Immune/Hematopoietic, Reproductive
2482	HTXJW06	Cancer
2483	HTXKB57	Cancer
2484	HTXKH22	Immune/Hematopoietic
2485	HTXKH40	Cancer
2486	HTXKK76	Immune/Hematopoietic
2487	HTXKL53	Cancer
2488	HTXKS11	Immune/Hematopoietic
2489	HTXKS27	Cancer
2490	HTXLC05	Digestive, Immune/Hematopoietic, Respiratory
2491	HTXLC45	Immune/Hematopoietic
2492	HTXLT36	Cancer
2493	HTXLY94	Cancer
2494	HTXNV66	Cancer
2495	HTXOL30	Immune/Hematopoietic
2496	HTXOW27	Cancer
2497	HTXPD86	Cancer
2498	HTXPT57	Digestive, Immune/Hematopoietic
2499	HTYSJ88	Endocrine, Immune/Hematopoietic
2500	HUDBE20	Reproductive
2501	HUDBK47	Immune/Hematopoietic, Reproductive
2502	HUFAB57	Cancer
2503	HUFAL17	Digestive
2504	HUFAO92	Digestive, Reproductive
2505	HUFAO94	Cancer
2506	HUFAP33	Cancer
2507	HUFAU71	Cancer
2508	HUFBK95	Digestive, Reproductive
2509	HUFBP77	Cancer
2510	HUFBV62	Cancer
2511	HUFBY96	Cancer
2512	HUFCN72	Digestive
2513	HUFEF79	Cancer
2514	HUKAD46	Endocrine, Immune/Hematopoietic, Reproductive
2515	HUKAI28	Cardiovascular, Reproductive
2516	HUKAO50	Cancer

2517	HUKCS86	Cancer
2518	HUKCS86	Cancer
2519	HUKEA22	Cancer
2520	HUKEL79	Cancer
2521	HUKEX37	Reproductive
2522	HUKFC71	Cancer
2523	HUKFV37	Cancer
2524	HUKFY09	Cancer
2525	HUNAL39	Reproductive
2526	HUSAO04	Cancer
2527	HUSAO04	Cancer
2528	HUSCA09	Cancer
2529	HUSCJ01	Cancer
2530	HUSGB23	Cancer
2531	HUSGJ09	Cardiovascular, Neural/Sensory
2532	HUSGQ57	Cancer
2533	HUSGY15	Cancer
2534	HUSHD41	Cancer
2535	HUSHK65	Cancer
2536	HUSIK45	Cancer
2537	HUSIO57	Cancer
2538	HUSIP17	Cardiovascular
2539	HUSIR70	Cancer
2540	HUSXP50	Cardiovascular, Reproductive
2541	HUSXY93	Cancer
2542	HUSYG26	Cancer
2543	HUVQC68	Cancer
2544	HUVDG58	Digestive, Immune/Hematopoetic, Reproductive
2545	HUVEG53	Cancer
2546	HWAAH11	Cancer
2547	HWAAQ28	Cancer
2548	HWAAQ60	Cancer
2549	HWABR43	Digestive, Immune/Hematopoetic
2550	HWACH06	Cancer
2551	HWACZ33	Digestive, Immune/Hematopoetic, Reproductive
2552	HWADV90	Immune/Hematopoetic
2553	HWAEB52	Cancer
2554	HWBAK71	Immune/Hematopoetic
2555	HWBBU75	Cancer
2556	HWBCN81	Immune/Hematopoetic, Reproductive
2557	HWBCP16	Immune/Hematopoetic
2558	HWBCX93	Cancer
2559	HWBEF34	Immune/Hematopoetic, Neural/Sensory
2560	HWFBB23	Cancer
2561	HWFBI40	Connective/Epithelial, Digestive, Immune/Hematopoetic
2562	HWHGV77	Connective/Epithelial
2563	HWHGW09	Cancer
2564	HWHHA21	Connective/Epithelial

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2565	HWHPU44	Connective/Epithelial
2566	HWHRC51	Cancer
2567	HWLAT50	Cancer
2568	HWLBO67	Digestive
2569	HWLGP26	Cancer
2570	HWLHO31	Cardiovascular, Digestive
2571	HWLIL31	Cancer
2572	HWLJN08	Cancer
2573	HWLRE03	Cancer
2574	HWTAM38	Digestive, Immune/Hematopoetic, Reproductive
2575	HWTAW58	Cancer
2576	HWTBB42	Cancer
2577	HWTBC75	Cancer
2578	HWTBI25	Cancer
2579	HWTBL86	Cancer
2580	HWTBX66	Cancer
2581	HYAAC74	Immune/Hematopoetic, Musculoskeletal, Reproductive
2582	HYAAD61	Immune/Hematopoetic
2583	HYACC21	Immune/Hematopoetic
2584	HYBAP75	Cancer
2585	HYBAQ24	Cancer
2586	HYBAW56	Musculoskeletal
2587	HYBBD81	Musculoskeletal

TABLE 2

Clone ID No:Z	Contig ID:	SEQ ID NO:X	Analysis Method	PFam/NR Description	PFam/NR Accession Number	Score/Percent Identity	NT From	NT To
H2CBD20	570796	11	blastx.2	HYPOTHETICAL PROTEIN (FRAGMENT).	sp Q14288 Q14288	58% 52%	758 987	988 1244
H2CBH91	826669	12	blastx.2	CDNA FLJ20357 FIS, CLONE HEP16545.	sp Q9NXA3 Q9NXA3	99% 100% 78% 63% 37% 34% 31% 45% 45%	182 3 603 133 380 197 392 260 693	643 125 758 222 643 352 583 322 758
H2LBA54	684290	13	blastx.2	APOPTOSIS SPECIFIC PROTEIN (DJ134E15.2) (APOPTOSIS SPECIFIC PROTEIN).	sp O60875 O60875	100%	172	996
H2LBB09	658667	14	blastx.2	HSPC210.	sp Q9P0R6 Q9P0R6	97% 95%	73 465	477 536
H2LBB09	830636	15	blastx.2	HSPC210.	sp Q9P0R6 Q9P0R6	97% 100%	112 504	516 575
H2MBF60	695714	18	blastx.2	transcription factor TFIIID 32K chain TAFII32 - human	pir I39141 I39141	100%	163	954
H6EEA48	847111	20	blastx.2	54TMP.	sp O95070 O95070	57% 53%	478 24	933 482
H6EEN71	829201	21	blastx.2	PEROXISOME ASSEMBLY PROTEIN PEX10 (PEROXIN-10).	sp O60683 PEXA_HUMAN	100%	1943	1779
H6EEO05	865424	22	HMMER 2.1.1	PFAM: EF hand	PF00036	25	328	414
			blastx.2	hypothetical protein	pir T17225 T17225	97%	265	522

HACBJ11	797625	28	blastx.2	DKFZp564C246.1 - human	pir S60712 S60712	100%	8	139
HACBS86	603946	29	WUblastx.6 4	band-6-protein - human (BC000764) hypothetical protein FLJ10342 [Homo sapiens]	gb AAH00764.1 AAH007 64	66%	89	682
HADCL19	599065	35	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	57%	1082	762
HADDC04	601695	37	blastx.2	Hypothetical 8.0 kDa protein.	sp BAB12345 BAB12345	57%	2522	2379
HADDP51	853356	39	HMMER 2.1.1	PFAM: TBC domain	PF00566	52.3	357	509
			blastx.2	CDNA: FLJ22474 fis, clone HRC10568.	sp BAB15368 BAB15368	99%	12	701
HADET62	607615	41	blastx.2	probable pol polyprotein- related protein 4 - rat	pir S21348 S21348	35% 46% 45% 31%	590 808 657 217	330 668 592 104
HADEY08	799507	42	blastx.2	CDNA FLJ20367 FIS, CLONE HEP18101.	sp Q9NX94 Q9NX94	98%	663	1109
HADEY22	861628	44	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	72%	611	459
HADFB84	668229	45	blastx.2	PRO2550.	sp AAG35515 AAG35515	72%	758	1009
HADFD10	843934	47	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	dbj BAB21918.1	52% 61% 55%	1200 1267 1325	1024 1205 1254
HADFK11	637485	48	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	dbj BAB21918.1	65%	1038	919
HADFW20	599066	50	blastx.2	CDNA FLJ12759 fis, clone NT2RP2001347.	sp BAB14259 BAB14259	83%	1065	823
HADFX10	741054	51	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp O60448 O60448	59% 54% 52% 40% 40% 47% 35% 62%	972 917 972 1194 1019 1267 1221 726	715 654 772 850 645 1040 808 646

HADFY80	654831	52	blastx.2	CDNA FLJ13153 fis, clone NT2RP3003409, weakly similar to 1	sp BAB14468 BAB14468	40%	1270	1160
HADXA10	772423	55	blastx.2	CGI-149 PROTEIN.	sp Q9Y3E7 Q9Y3E7	95%	238	798
HADXA10	859777	56	blastx.2	CGI-149 PROTEIN.	sp Q9Y3E7 Q9Y3E7	78%	132	311
HAFBB15	608180	57	HMMER 2.1.1	PFAM: RNA 3'-terminal phosphate cyclase	PF01137	100%	43	201
			blastx.2	RNA-3'-phosphate cyclase (EC 6.5.1.4) 1 [validated] - human	pir T48844 T48844	159.5	186	440
HAGAB62	588471	59	blastx.2	(AF267864) DC42 [Homo sapiens]	gb AAAG44733.1 AF267864_1	99%	6	446
HAGAB83	823044	60	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	98%	8	232
HAGAF75	561933	62	blastx.2	(AB055298) hypothetical protein [Macaca fascicularis]	dbj BAB21923.1	77%	1838	1599
HAGAK40	731929	63	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp Q9NX85 Q9NX85	59%	1597	1517
HAGAZ36	564230	65	blastx.2	pro-pol-dUTPase polypeptide - murine endogenous retrovirus ERV-1 (fragment)	pir T29097 T29097	71%	1199	1324
HAGBL31	679582	67	blastx.2	ORIGIN RECOGNITION COMPLEX SUBUNIT 2.	sp Q13416 QRC2_HUMAN	75%	470	661
HAGBO09	853357	68	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp Q9NX17 Q9NX17	64%	704	838
HAGBO12	601431	69	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	dbj BAB21918.1	39%	572	27
HAGBS89	846292	71	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp Q9NX85 Q9NX85	50%	753	613
						66%	613	578
						97%	509	619
						78%	1533	1249
						75%	550	353
						63%	348	241
						64%	1173	856
						59%	1173	982
						70%	1227	1198

HAGBV06	701966	72	blastx.2	(AL136812) hypothetical protein [Homo sapiens]	emb CAB66746.1	70%	1228	1199
HAGBV25	838174	73	blastx.2	CDNA: FLJ21040 fis, clone CAE10642.	sp BAB14965 BAB14965	99%	1	1644
HAGBV29	837203	74	blastx.2	PRO2550.	sp AAG35515 AAG35515	71%	2069	1761
						56%	749	955
						71%	439	585
						60%	309	455
						48%	732	836
						48%	648	731
HAGCC87	638587	75	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	60%	796	984
						66%	983	1114
HAGCI69	560596	77	blastx.2	PRO0478 PROTEIN.	sp Q9UI59 Q9UI59	52%	1015	1185
HAGCZ70	747697	79	blastx.2	CDNA FLJ20378 FIS, CLONE KAJA0536.	sp Q9NX85 Q9NX85	73%	1557	1342
HAGDC73	724860	80	blastx.2	CG12367 PROTEIN.	sp Q9V662 Q9V662	50%	1372	1169
HAGDJ53	821315	84	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	dbj BAB21918.1	35%	473	1006
						50%	1782	1582
						70%	1873	1781
						46%	1796	1713
						66%	1673	1629
HAGDL51	637488	86	blastx.2	CDNA FLJ14310 fis, clone PLACE3000271.	sp BAB14900 BAB14900	71%	115	11
						46%	1637	1542
						44%	1561	1481
HAGDO70	812393	87	blastx.2	platelet-activating factor acetylhydrolase (EC 3.1.1.-) gamma chain - human	pir JC4246 JC4246	100%	185	877
HAGDT30	589514	88	blastx.2	PROTEIN ASSOCIATED WITH MYC.	sp O75592 O75592	98%	1125	2006
						88%	403	1131
						100%	11	280
						30%	250	933
						29%	502	867

HAGDW68	835631	89	blastx.2	NEUREXOPHILIN I PRECURSOR (FRAGMENT).	sp Q61200 NPH1_MOUSE	24%	11 1945	208 2007
HAGEK86	748222	92	blastx.2	DYNEIN LIGHT INTERMEDIATE CHAIN 2, CYTOSOLIC (LIC53/55) 1	sp O43237 DYI2_HUMAN	52% 27% 45% 47% 45%	1761 1945 1945 1445	1976 2007 2007 1504
HAGEP30	604478	93	blastx.2	CDNA FLJ20378 FIS, CLONE KAI0536.	sp Q9NX85 Q9NX85	99% 100%	2 390	385 470
HAGEQ67	838445	95	blastx.2	PUTATIVE TYPE III ALCOHOL DEHYDROGENASE.	sp Q94532 Q94532	96%	1066	1617
HAGEU26	608183	96	blastx.2	Hypothetical 12.9 kDa protein.	sp BAB12124 BAB12124	75% 72%	809 636	627 517
HAGFM58	604536	103	blastx.2	PRO0898.	sp AAG35479 AAG35479	59% 55%	356 10	481 144
HAGFT48	780112	104	blastx.2	FOOCEN-M (NOGO-B PROTEIN).	sp Q9Y2Y7 Q9Y2Y7	62% 98% 100% 27% 43% 29% 43% 36%	233 1135 1281 128 129 112 123 98	1159 1281 298 239 252 212 196
HAGFU31	751713	105	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp O60448 O60448	66% 66% 67% 68% 78% 52% 44% 65% 45%	1263 1263 1229 1094 1024 1015 997 1026 1093	967 1084 1083 1029 983 953 896 967 1028
HAGFW13	634611	106	blastx.2	retrovirus-related reverse transcriptase pseudogene - slow loris	pir B25313 GNLRL1	68% 45% 69%	307 542 453	164 300 385

HAGHE85	838059	107	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp Q9NX17 Q9NX17	65%	1697	1362
HAHSD51	847014	112	blastx.2	CG9350 PROTEIN.	sp Q9W2N2 Q9W2N2	35% 40%	203 105	490 170
HAIBV91	852223	115	blastx.2	UNNAMED PORTEIN PRODUCT.	sp Q9N083 Q9N083	57% 40% 58% 50% 68% 56%	636 1911 1380 1229 1243 1155	899 1955 1243 1146 1187 1087
HAICE62	834523	116	blastx.2	Mob1 protein.	sp BAB19058 BAB19058	100%	203	850
HAICL90	637491	117	blastx.2	UNNAMED PORTEIN PRODUCT.	sp Q9N083 Q9N083	63%	722	438
HAIDP45	847015	119	blastx.2	CDNA: FLJ21313 fis, clone COL02176.	sp BAB15045 BAB15045	97%	986	1096
HAIAB88	780114	120	HMMER 2.1.1	PFAM: Ribosomal protein L34	PF00468	32.3	276	401
			blastx.2	ribosomal protein L34-like protein [imported] - fission yeast (Schizosaccharomyces pombe)	pir T50348 T50348	54%	249	401
HANKC93	847018	126	blastx.2	CDNA FLJ12759 fis, clone NT2RP2001347.	sp BAB14259 BAB14259	57% 70% 81%	754 648 806	656 589 759
HAPAD35	840584	127	blastx.2	CDNA FLJ11786 fis, clone HEMBA1006036.	sp BAB13911 BAB13911	49% 68%	1401 1198	1171 1067
HAPBR13	609976	128	blastx.2	CDNA: FLJ21918 fis, clone HEP04006.	sp BAB15173 BAB15173	40% 52% 36% 63% 77% 66% 70%	424 95 273 81 84 78 84	762 277 452 113 110 113 113
HAPBU09	762803	129	blastx.2	NEUROPATHY TARGET ESTERASE.	sp O60859 O60859	100%	3	545
HAPNI33	835554	132	blastx.2	(AF222743) Sec61 alpha-1 [Mus musculus]	gb AAG44252.1 AF222743_1	98% 100%	157 1197	1230 1403

HAPNL62	790340	133	WUblastx.6 4	(AK000734) unnamed protein product [Homo sapiens]	dbj BAA91348.1	99%	937	1977
HAPNO50	834384	134	blastx.2	hypothetical protein DKFZp564N123.1 - human (fragment)	pir T08701 T08701	97%	323	883
HAPPW83	847020	136	blastx.2	PRO2550.	sp AAG35515 AAG35515	88%	27	332
HAPRK55	735887	143	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	77%	3	29
HAPSH37	847021	144	blastx.2	PRO2550.	sp AAG35515 AAG35515	77%	451	627
HAQBY85	832384	146	blastx.2	CG15439 PROTEIN.	sp Q9VQZ8 Q9VQZ8	69%	626	757
HARAE26	560598	150	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp BAB15056 BAB15056	84%	1367	1041
HARAT69	769389	151	blastx.2	CG1582 PROTEIN.	sp Q9VZ55 Q9VZ55	75%	199	68
HARAZ81	832380	152	blastx.2	HSPC241.	sp Q9P0N7 Q9P0N7	75%	63	28
HASAU26	845848	153	blastx.2	CDNA FLJ12984 fis, clone NT2RP3000047, weakly similar to 1	sp BAB14372 BAB14372	68%	17	358
HASAY07	834511	155	blastx.2	catalase (EC 1.11.1.6) - Campylobacter jejuni	pir I40767 I40767	35%	925	1503
HATAE01	654834	156	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp Q9NX17 Q9NX17	28%	1216	1076
HATAL05	847023	158	blastx.2	MDM2 binding protein.	sp CAC07970 CAC07970	48%	2	1360
HATCF80	780460	161	blastx.2	ADP-RIBOSYLATION FACTOR-DIRECTED GTPASE ACTIVATING	sp Q9Z2B6 Q9Z2B6	96%	7	327
						98%	188	829
						98%	820	1425
						94%	3	107
						95%	132	194
						100%	98	133
						40%	2405	2479
						96%	263	177
						74%	811	647
						91%	645	574
						71%	569	507
						77%	10	876
						94%	9	479

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HATDH23	603959	168	blastx.2	MTG8-LIKE PROTEIN (MTG8 RELATED PROTEIN) (EHT) (EHT PROTEIN) (MTG8-LIKE PROTEIN MTGR1A).	sp O43439 O43439	100%	1053	1145
HATDO84	609850	170	blastx.2	CDNA: FLJ21394 fis, clone COI03536	sp BAB15056 BAB15056	62%	951	655

HATDU01	847028	171	blastx.2	PRO2550.		sp AAG35515 AAG35515	66% 59%	1198 1299	974 1204
HATDW05	566849	172	blastx.2	SIMILAR TO RING-H2 FINGER PROTEIN RHA1A.		sp Q9SNH1 Q9SNH1	96% 92% 74% 88% 100% 100%	547 555 556 553 557 558	473 481 464 479 492 493
HAUCC84	830672	177	blastx.2	ANTI-DEATH PROTEIN.		sp O75353 O75353	98% 91% 47% 28%	250 44 105 25	510 259 254 246
HAWAS41	877621	178	blastx.2	CDNA: FLJ21463 fis, clone COL04765.		sp BAB15071 BAB15071	63% 46% 66%	1001 838 768	813 692 733
HAWBA65	542056	179	blastx.2	(AY012159) virion-associated nuclear-shuttling protein [Mus musculus]		gb AAG42155.1	100%	28	111
HBAGH64	801884	180	blastx.2	HYPOTHETICAL PROTEIN (FRAGMENT).		sp Q14287 Q14287	37%	810	568
HBBBA42	841010	184	blastx.2	HRIHFB2072 PROTEIN (FRAGMENT).		sp Q9UIL1 Q9UIL1	58% 57%	3 6	263 269
HBCAK10	810227	188	blastx.2	dermal gland protein APEG precursor - African clawed frog 1		pir S07498 SKXLAG	30% 31%	580 520	1509 1119
HBCAQ48	525002	190	blastx.2	ADA3-LIKE PROTEIN.		sp O75528 O75528	100%	10	345
HGBBA14	838123	193	blastx.2	CDNA: FLJ22976 fis, clone KAT11222 (Fragment).		sp BAB15513 BAB15513	80% 93% 56% 100% 86%	647 671 577 671 672	754 760 753 751 761
HGBBE75	897455	194	blastx.2	MITOCHONDRIAL IMPORT INNER MEMBRANE TRANSLOCASE SUBUNIT 1		sp O60830 I17B_HUMA N	97%	98	325
HBHAA53	603183	199	blastx.2	UNNAMED PORTEIN PRODUCT.		sp Q9N083 Q9N083	66% 65%	609 439	415 326
HBIAU43	840354	200	blastx.2	PRO0478 PROTEIN.		sp Q9UI59 Q9UI59	76%	1109	1225

HBIAW58	596805	201	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	67%	1504	1337
HBIBF26	845743	203	blastx.2	CGI-15 PROTEIN.	sp Q9Y304 Q9Y304	77%	1335	1270
HBIBQ69	580807	206	blastx.2	MITOGEN-ACTIVATED ZINC FINGER.	sp Q62977 Q62977	66%	1268	1188
HBIBR38	612783	207	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp Q9NX17 Q9NX17	99%	313	945
HBIBS33	590280	209	blastx.2	Hypothetical 15.8 kDa protein.	sp AAG17270 AAG17270	100%	942	1298
HBIBZ20	688861	211	blastx.2	ACIDIC NUCLEOPLASMIC DNA-BINDING PROTEIN 1 (AND-1).	sp O75717 O75717	93%	721	810
HBIBB80	637516	212	blastx.2	NADH-UBIQUINONE OXIDOREDUCTASE 20 KDA SUBUNIT PRECURSOR 1 1	sp O75251 NUKM_HUMAN	84%	668	724
HBIAAC40	841235	213	blastx.2	CHROMOSOME 16 OPEN READING FRAME 5.	sp Q9P112 Q9P112	73%	823	503
HBIAV56	603529	214	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp Q9NX17 Q9NX17	87%	824	801
HBIBR40	581104	217	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	dbj BAB21918.1	63%	581	459
HBICH46	609859	218	blastx.2	conserved hypothetical protein PA5065 [imported] - Pseudomonas aeruginosa (strain PAO1)	pir D83014 D83014	53%	581	1380
HBICS26	821682	220	blastx.2	(AL136844) hypothetical protein [Homo sapiens]	emb CAB66778.1	72%	1421	1389
HBIDR83	600395	224	blastx.2	POL/ENV ORF.	sp Q14273 Q14273	99%	229	603
HBIEL21	866158	226	blastx.2	ZINC FINGER PROTEIN 148	sp Q9UQR1 Z148_HUMAN	98%	227	1636
						62%	14	556
						68%	614	718
						69%	544	621
						60%	813	902
						41%	1223	1291
						99%	807	2063

				(TRANSCRIPTION FACTOR ZBP-89).	AN			
HBJFH84	836997	227	blastx.2	T10022.22.	sp Q9LM25 Q9LM25	34%	118	921
HBJHO83	610259	236	HMMER 2.1.1	PFAM: ENV polyprotein (coat polyprotein)	PF00429	40.5	207	389
			blastx.2	ENVELOPE POLYPROTEIN (FRAGMENT).	sp Q61533 Q61533	47% 45% 85%	177 64 2	365 174 61
HBJIR14	793391	241	blastx.2	CDNA FLJ13968 fis, clone Y79AA1001493, weakly similar to 1	sp BAB14789 BAB14789	100%	134	871
HBJJA26	743181	242	blastx.2	GAG POLYPROTEIN (FRAGMENT).	sp Q9PZ45 Q9PZ45	41%	665	408
HBJJX02	612069	243	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	dbj BAB21918.1	67%	723	598
HBJND04	837242	245	HMMER 2.1.1	PFAM: Bacterial mutT protein	PF00293	26.2	-360	-479
			WUblastx.6 4	(AX042212) unnamed protein product [Homo sapiens]	emb CAC17067.1	91%	309	1352
HBJND57	612785	246	blastx.2	CGI7741 PROTEIN.	sp Q9VCB4 Q9VCB4	65%	1	318
HBKDF66	827276	247	blastx.2	PRO0117 PROTEIN.	sp Q9UI85 Q9UI85	61% 64%	1780 1689	1688 1639
HBKEE60	793788	249	blastx.2	pro-pol-dUTPase polyprotein - murine endogenous retrovirus ERV-L (fragment)	pir T29097 T29097	62% 64% 39%	273 97 3	620 204 128
HBKEI41	827278	250	blastx.2	DJ881L22.2 (novel protein) (Fragment).	sp CAC04189 CAC04189	32%	71	739
HBMBD51	842176	251	blastx.2	(AL359614) hypothetical protein [Homo sapiens]	emb CAB94884.1	98%	2197	2709
HBMBD73	839564	252	blastx.2	MAP kinase 1 (EC 2.7.1.-) - human	pir JQ1400 JQ1400	97% 80%	127 60	1137 182
HBMBM17	637518	254	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp BAB15056 BAB15056	67% 100%	1115 840	840 823
HBMCL59	608668	255	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	60% 45%	796 630	608 472
HBMCM96	821318	256	blastx.2	CDNA: FLJ21394 fis, clone	sp BAB15056 BAB15056	55%	2177	1926

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Figure 1 consists of 12 histograms, labeled (a) through (l), arranged vertically. Each histogram shows the distribution of the number of non-zero elements in the rows of the matrix A_k for $k = 0, 1, \dots, 11$. The x-axis for each histogram represents the number of non-zero elements, ranging from 0 to 10. The y-axis represents the frequency of rows with that number of non-zero elements. The distributions are roughly bell-shaped and centered around 5 non-zero elements per row. The histograms are arranged in a single column, with each histogram corresponding to a specific value of k .

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[illegible]

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HBMUX39	647594	267	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp BAB15056 BAB15056	82%	705	821
HBMW39	523713	270	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	67%	760	1053
HBMW52	872553	272	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	71%	1055	1117
HBMXG01	689522	274	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp Q9NX85 Q9NX85	68%	1139	960
HBMXG76	580812	275	blastx.2	probable phosphodiesterase I (EC 3.1.4.1) - human (fragment)	pir T43461 T43461	90%	894	835
HBMXM05	842283	276	blastx.2	NATURAL RESISTANCE-ASSOCIATED MACROPHAGE PROTEIN 2.	sp Q94801 Q94801	66%	961	899
HBMXW83	725335	277	blastx.2	glutamate--cysteine ligase (EC 6.3.2.2) heavy chain - human	pir JH0611 JH0611	98%	37	222
HBNAE74	637524	278	blastx.2	DJ622L5.7.1 (NOVEL PROTEIN (ISOFORM 1)).	sp Q9NU78 Q9NU78	81%	326	487
HBNAX16	843727	279	blastx.2	EG:165H7.3 PROTEIN.	sp O46055 O46055	90%	373	498
HBODK40	852382	281	blastx.2	AP-4 ADAPTOR COMPLEX BETA4 SUBUNIT.	sp Q9Y6B7 Q9Y6B7	100%	492	584
HBODV76	866420	282	blastx.2	(AF333387) Kel-like protein 23 [Homo sapiens]	gb AAAG52886.1 AF333387_1	100%	6	146
HBPAF39	850786	284	blastx.2	CDNA FLJ20378 FIS, CLONE	sp Q9NX85 Q9NX85	25%	363	2585
						23%	363	2492
						99%	674	1741
						95%	28	696
						96%	808	1905
						100%	71	475
						91%	474	902
						50%	1262	849

HBQAC72	799512	286	blastx.2	KAIA0536. transcription factor znf6 - human	pi[S25409]S25409	90%	2072 1844 1227 1215 1194 1401	1110
HBXAJ63	848683	288	blastx.2	ZINC FINGER PROTEIN 289.	sp Q9JIH1 Q9JIH1	94%	11	406
HBSDDD24	839802	290	blastx.2	N-ACETYLGLUCOSAMINE KINASE PROTEIN (EC 2.7.1.59).	sp Q9UJ70 Q9UJ70	100%	886	1251
HBWBD25	800765	291	blastx.2	PUTATIVE RNA BINDING PROTEIN 1 (FRAGMENT).	sp O08872 O08872	33%	1473	574
HBXAS93	836513	292	blastx.2	SODIUM/HYDROGEN EXCHANGER 5 (NA(+)/H(+) EXCHANGER 5) (NHE-5).	sp Q14940 NAH5_HUM AN	83% 100% 90%	532 2 256	1137 238 321
HBXAW57	815650	294	blastx.2	UNNAMED PORTEIN PRODUCT.	sp Q9N083 Q9N083	56% 70%	1223 1288	1071 1229
HBXBM24	823353	296	blastx.2	CDNA FLJ12547 fis, clone NT2RM4000634.	sp BAB14128 BAB14128	46%	9	206
HBXBM78	812527	297	WUblastx.6 4	(AF113615) FH1/FH2 domain- containing protein FHOS [Homo sapiens]	gb AAD39906.1 AF11361 5_1	84% 28% 100% 97% 100% 42% 28% 55%	846 2503 1004 1903 2311 2184 1777 2520	259 2138 852 1046 2042 2122 1334 2248
HBXCD59	860439	298	blastx.2	(AF220037) tripartite motif protein TRIM9 isoform 1	gb AAG53491.1 AF22003 7_1	99%	59	823
HBXCG08	628501	300	blastx.2	Hypothetical 14.2 kDa protein.	sp AAG17216 AAG17216	60% 51%	1872 1688	1687 1578
HBXCM52	799513	301	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	71% 82%	2424 2510	2212 2424
HBXCQ03	589516	302	blastx.2	PTD009 (HSPC172).	sp Q9Y296 Q9Y296	100% 100%	17 382	382 672
HBXDN08	566765	306	blastx.2	SPROUTY 2.	sp O43597 O43597	100%	8	256

HBXDN65	840021	307	blastx.2	PRO2550.	sp AAG35515 AAG35515	76%	1940	1641
HBXFA04	842901	308	blastx.2	HSPC268 (FRAGMENT).	sp Q9P0B3 Q9P0B3	85%	309	533
HBXFE64	838824	309	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	58%	1646	1320
HBXFP72	688040	311	blastx.2	CDNA: FLJ21308 fis, clone COL02131.	sp BAB15044 BAB15044	99%	7	1167
HBXFS31	815651	312	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp Q9NX17 Q9NX17	63%	430	678
						71%	417	455
						75%	419	451
						70%	1551	1261
HBXFW01	847001	313	HMMER 2.1.1	PFAM: Stathmin family	PF00836	185.7	266	523
			blastx.2	(AJ303455) RB3 protein [Homo sapiens]	emb CAC22254.1	100%	125	523
						100%	523	690
HBXGE12	745398	2599	WUblastx.6 4	(AF131851) Unknown [Homo sapiens]	gb AAD20061.1	100%	10	390
HBXGL91	901845	315	blastx.2	Orphan neurotransmitter transporter v7-3.	sp AAG41361 AAG41361	95%	389	979
						100%	949	1470
						100%	10	99
HBXGM24	821320	316	blastx.2	HYPOTHETICAL 76.2 KDA PROTEIN.	sp Q63779 Q63779	60%	470	84
						45%	663	475
						53%	724	647
						57%	85	23
HCBAB34	847002	321	blastx.2	Hypothetical 12.9 kDa protein.	sp BAB12124 BAB12124	66%	526	455
						41%	467	375
HCDAH02	653066	325	blastx.2	CG5327 PROTEIN.	sp Q9V8J7 Q9V8J7	31%	486	256
						28%	655	476
HCDAP33	566794	326	blastx.2	ATP SYNTHASE G CHAIN, MITOCHONDRIAL (EC 3.6.1.34) (ATPASE 1	sp O75964 ATPN_HUMAN	76%	407	694
HCDAR40	654821	327	blastx.2	PRO1722.	sp Q9P195 Q9P195	63%	837	514
HCDAS02	896667	328	blastx.2	PUTATIVE EUKARYOTIC TRANSLATION INITIATION FACTOR 3 1	sp O75153 IF3X_HUMAN	99%	79	867
HCDBO32	831942	330	blastx.2	CG10343 PROTEIN.	sp Q9VJ60 Q9VJ60	45%	251	709
						64%	709	801

HCDBW67	733860	331	blastx.2	DI469A13.2 (novel protein) (Fragment).	sp CAC10099 CAC10099	97%	43	255
HCDCB03	571037	333	HMMER 2.1.1	PFAM: Zinc carboxypeptidase	PF00246	103.3	35	337
			blastx.2	carboxypeptidase H (EC 3.4.17.10) - mouse	pir S16383 S16383	93% 77% 79%	11 340 657	337 621 728
HCDC51	813504	334	blastx.2	CDNA FLJ13241 fis, clone OVARC100557.	sp BAB14516 BAB14516	61%	1040	840
HCDC142	847004	335	blastx.2	TANK BINDING KINASE TBK1 (NF-KB-ACTIVATING KINASE NAK).	sp Q9UHD2 Q9UHD2	100%	678	875
HCDDX81	603184	337	blastx.2	MICROVASCULAR ENDOTHELIAL DIFFERENTIATION PROTEIN 2.	sp O35807 O35807	95% 100% 87% 90% 35%	357 359 344 351 239	419 418 415 416 280
HCDDY28	892137	338	blastx.2	HYPOTHETICAL PROTEIN (FRAGMENT).	sp Q14287 Q14287	60% 55%	1312 1458	1013 1312
HCDEB19	587264	339	blastx.2	nuclear matrix protein NMP 238 - human	pir JE0334 JE0334	91% 99% 98% 100% 93% 50% 31% 31%	823 473 76 1218 426 852 605 1335	1218 829 438 1436 470 905 700 1430
HCDES69	609997	341	blastx.2	CDNA FLJ13381 fis, clone PLACE1001010.	sp BAB14576 BAB14576	62% 61%	687 524	553 423
HCE1D45	664481	342	blastx.2	WUGSC:H_D1400N23.1 PROTEIN.	sp Q9UDU0 Q9UDU0	100%	10	279
HCE1T53	843680	344	blastx.2	PRO2550.	sp AAG35515 AAG35515	63% 64% 75% 80% 45% 50%	1455 720 1286 725 846 1203	1285 553 1152 663 727 1150

HCE1Y27	637529	345	blastx.2	COPINE VI (NEURONAL-COPINE) (N-COPINE).	sp O9574 CNE6_HUMAN	69% 60% 47%	1456 568 826	1418 524 770
HCE1Y34	809084	346	blastx.2	PVA1 GENE.	sp Q26195 Q26195	93% 95% 98% 80%	16 901 519 887	561 1389 896 946
HCE2E47	886155	348	blastx.2	PRO2550.	sp AAG35515 AAG35515	52% 78%	1717 1517	1523 1434
HCE2P90	737935	350	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	72% 67%	1254 1450	1448 1533
HCE3C46	737889	352	blastx.2	CDNA FLJ20378 FIS, CLONE KAI0536.	sp Q9NX85 Q9NX85	53% 63%	607 1876	870 1736
HCE3D58	873227	353	blastx.2	(AL512758) hypothetical protein [Homo sapiens]	emb CAC21677.1	64% 82%	738 973	971 1023
HCE3L04	845973	356	blastx.2	(AP000735) extensin protein-like [Arabidopsis thaliana]	dbj BAB01698.1	100%	421	879
HCE3N23	810211	357	blastx.2	hypothetical protein DKFZp586N1922.1 - human (fragment)	pir T17253 T17253	27%	652	41
HCE3R01	834836	358	blastx.2	HISTONE ACETYLTRANSFERASE.	sp O95251 O95251	100% 55% 57%	1108 916 836	1590 1062 913
HCE3R01	841472	359	blastx.2	HISTONE ACETYLTRANSFERASE.	sp O95251 O95251	85% 76%	68 6	1111 320
HCE3R01	844574	360	blastx.2	HISTONE ACETYLTRANSFERASE.	sp O95251 O95251	85% 76%	68 6	1111 320
HCE3R46	844450	361	blastx.2	UNKNOWN (DERP2).	sp O95894 O95894	85% 76%	68 6	1111 320
HCE4H32	843941	362	blastx.2	CDNA FLJ10769 FIS, CLONE NT2RP4000151.	sp Q9NVF5 Q9NVF5	100%	131	1165
HCE4H32	874256	363	blastx.2	HSPC237.	sp Q9P0P1 Q9P0P1	94% 85% 97% 82% 37%	333 73 964 848 349	893 402 1104 964 429
HCE4H32	874256	363	blastx.2	HSPC237.	sp Q9P0P1 Q9P0P1	100% 100%	1325 1260	1765 1322

HCE4W88	792953	365	blastx.2	MLL SEPTIN-LIKE FUSION PROTEIN.	sp Q9Y5W4 Q9Y5W4	100%	3676	1973
HCE5B62	566864	366	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp O60448 O60448	63% 70% 48% 64% 61% 58% 63% 58% 43% 36% 62% 44% 38% 56% 47% 45% 84% 63% 59% 61% 70% 50% 40% 34% 58% 40%	1673 1011 1056 1653 1010 1563 1653 1553 1557 981 956 1028 1631 1505 1711 823 1683 875 846 1632 1470 1496 1023 820 778 1711	1425 850 757 1486 834 1441 1546 1425 1420 748 855 810 1500 1410 1598 725 1645 819 781 1579 1420 1431 943 725 728 1637
HCE5H86	847032	367	blastx.2	WW DOMAIN BINDING PROTEIN-1.	sp O95637 O95637	100% 83% 98%	1538 838 1276	2107 1317 1539
HCE5I64	688883	368	blastx.2	CDNA FLJ20378 FIS, CLONE KAI1A0536.	sp Q9NX85 Q9NX85	60% 50%	2206 2033	2018 1899
HCEBF54	847033	369	WUblastx.6 4	(AJ297364) hypothetical protein [Homo sapiens]	emb CAB95949.1	100%	338	583
HCEDN07	847034	374	blastx.2	PRO2550.	sp AAG35515 AAG35515	78% 86%	1425 1186	1255 1121

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									31%		1059	754
									31%		1059	754
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									31%		1059	754
									31%		1059	754
									31%		1059	754
									32%		1050	754
HCEFG93	745400	384	blastx.2	CDNA FLJ14310 fis, clone PLACE3000271.				sp BAB14900 BAB14900	72%		1370	1116
HCEFH31	801890	385	blastx.2	SPONDIN 2.				sp Q9ULW1 Q9ULW1	100%		1503	1685
HCEFK56	872554	386	blastx.2	DYNACTIN, 150 KDA ISOFORM (150 KDA DYNEIN-ASSOCIATED 1			sp Q14203 DYNA_HUM AN	98%		7	2088	2015
HCEGK81	844452	390	blastx.2	CDNA FLJ11786 fis, clone HEMBA1006036.			sp BAB13911 BAB13911	71%		350	646	1466
									54%	1630	1466	1633
									51%	1743	1633	
HCEGS49	846298	391	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.			sp O60448 O60448	61%		905	579	711
									63%	881	711	710
									61%	856	710	529
									42%	711	610	610
									92%	651	610	659
									66%	721	659	
HCEGY33	753258	393	blastx.2	ADAPTER-RELATED PROTEIN COMPLEX 1 GAMMA 2 SUBUNIT 1			sp O75843 A1G2_HUMA N	98%		2024	1818	988
									97%	1131	988	1274
									100%	1396	1274	760
									89%	873	181	523
									54%	444	181	
									43%	765	523	

HCEHW24	560610	394	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	70%	1380 1123	1126 1064
HCEJL08	722208	395	blastx.2	ITBA1 PROTEIN (CXORF12 PROTEIN) (DXS9878E).	sp Q14656 IBAL_HUMA N	79% 96% 100% 40% 29%	130 581 2 36 471	585 775 103 539 641
HCELB04	847375	397	blastx.2	POTENT BRAIN TYPE ORGANIC ION TRANSPORTER.	sp Q9P290 Q9P290	93% 94% 63% 88% 33% 31%	266 1064 156 982 500 1106	1024 1594 344 1083 832 1447
HCEMA08	846468	398	blastx.2	ATPase inhibitor precursor, mitochondrial - human	pir JC7175 JC7175	100% 100%	37 1599	216 1739
HCENQ22	740746	400	blastx.2	CDNA FLJ13059 fis, clone NT2RP3001589.	sp BAB14417 BAB14417	80%	1086	934
HCEOF01	564906	401	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	75% 52% 78%	1551 1669 1667	1366 1556 1629
HCEOF01	850521	402	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	75% 52% 78%	1550 1668 1666	1365 1555 1628
HCEOQ67	847376	404	blastx.2	(AC079829) Pto kinase interactor, putative [Arabidopsis thaliana]	gb AAG50687.1 AC0798 29_20	32% 29% 30%	545 330 291	841 596 602
HCEOV48	850681	405	blastx.2	melibiose carrier protein melB - Synechocystis sp. (strain PCC 6803)	pir S75696 S75696	30% 31% 24%	265 1311 976	783 1673 1233
HCEPC90	603920	406	blastx.2	PVA1 GENE.	sp Q26195 Q26195	70%	928	818
HCEPO08	637543	407	blastx.2	RIBOSOMAL PROTEIN L29/HEPARIN/HEPARAN SULFATE INTERACTING 1	sp Q9XS36 Q9XS36	79% 100%	516 614	145 504
HCEB03	812940	408	blastx.2	NAG18.	sp AAF99587 AAF99587	76%	729	857
HCETL19	702090	411	blastx.2	(AF336887) FKSG60 [Homo sapiens]	gb AAK01738.1 AF33688 7_1	64%	400	573
HCFAT42	815652	415	blastx.2	Cytochrome oxidase subunit 3.	sp BAB18608 BAB18608	79%	699	884

HCFA766	821337	416	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp Q9NX17 Q9NX17	47%	369	431
HCFBM77	604576	418	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp O60448 O60448	67%	919	605
						73%	898	719
						71%	864	709
						59%	729	664
						69%	659	621
						57%	650	609
HCFCB72	824165	420	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	74%	1555	1379
						65%	1718	1554
HCFCG91	897509	421	WUblastx.6 4	(AE003823) CG8858 gene product [Drosophila melanogaster]	gb AAF58554.1	47%	53	511
						32%	786	2780
						43%	492	785
						24%	480	950
						23%	1269	1565
						21%	1275	1643
						26%	1800	1922
HCFCM81	847378	422	blastx.2	PURATIVE PURINERGIC RECEPTOR P2Y10.	sp O00398 O00398	100%	281	1297
HCFLJ52	1307037	428	blastx.14	(AX055560) unnamed protein product [Homo sapiens]	gi 12228779 emb CAC22 100.1	100%	121	372
						100%	415	561
						100%	365	418
HCFLJ52	753260	2600	WUblastx.6 4	(AX055560) unnamed protein product [Homo sapiens]	emb CAC22100.1	100%	91	126
						56%	14	94
						98%	123	287
HCFLY20	786452	432	blastx.2	(AF319568) 3'-5' exonuclease TREX1-like protein [Homo sapiens]	gb AAK07615.1 AF31956 8_1	98%	57	437
						93%	431	784
						100%	757	978
						65%	936	1022
						39%	240	311
						39%	97	165
						35%	167	319
HCFLY20	858875	433	blastx.2	(AF319568) 3'-5' exonuclease TREX1-like protein [Homo sapiens]	gb AAK07615.1 AF31956 8_1	98%	442	951
						98%	68	448
						72%	959	1033
						100%	948	989

HCFMX16	581042	438	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	dbj BAB21918.1	39%	251	322
HCFMX88	825989	439	blastx.2	CDNA FLJ14310 fis, clone PLACE3000271.	sp BAB14900 BAB14900	66%	825	968
HCFNM40	746864	440	blastx.2	catalase (EC 1.11.1.6) - Campylobacter jejuni	pir 40767 40767	62%	959	1063
HCFNM50	732010	441	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp Q9NX17 Q9NX17	46%	22	114
HCFNIN75	762959	443	blastx.2	(AB055263) hypothetical protein [Macaca fascicularis]	dbj BAB21887.1	84%	246	130
HCFOH93	668236	445	blastx.2	PRO0898.	sp AAG35479 AAG35479	75%	1258	1103
HCGBA15	604603	446	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	56%	821	696
HCHAC68	610370	447	HMMER 2.1.1	PFAM: Ank repeat	PF00023	58.1	462	560
HCHBP49	892141	448	blastx.2	hypothetical protein DKFZp761H229.1 - human (fragment)	pir T47147 T47147	87%	6	770
HCHCG33	862534	450	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp Q9Y290 Q9Y290	100%	770	871
HCHMY57	833049	451	blastx.2	CG8412 PROTEIN.	sp Q9VH78 Q9VH78	32%	147	254
HCHOC06	688042	452	blastx.2	(AF320073) gastric cancer-related protein VRG107 1	gb AAK07636.1 AF320073_1	99%	8	490
HCHQB93	793648	454	blastx.2	GTP-binding protein 2 - human (fragment)	pir PC7084 PC7084	75%	2285	2073
						66%	2068	1988
						51%	15	1043
						100%	131	424
						99%	258	788
						88%	61	291

HCHQB93	875853	455	blastx.2	GTP-binding protein 2 - human (fragment)	pir PC7084 PC7084	89% 86% 37%	767 2 36	985 46 143
HCLCU75	862406	457	blastx.2	(AY012159) virion-associated nuclear-shuttling protein [Mus musculus]	gb AAG42155.1	99% 88% 89% 86% 37%	258 61 767 2 36	788 291 985 46 143
HCMSA37	598712	458	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	96% 31%	41 195	127 290
HCMSR07	821338	459	blastx.2	PRO0478 PROTEIN.	sp Q9UI59 Q9UI59	91%	1388	1489
HCNAI74	750972	460	blastx.2	hypothetical protein C06A1.6 - Caenorhabditis elegans	pir T18975 T18975	41% 29%	339 179	488 343
HCNSF01	901060	464	blastx.2	HYPOTHETICAL 50.0 KDA PROTEIN.	sp Q9Y6N5 Q9Y6N5	100%	107	1456
HCPAE41	799546	467	blastx.2	HSPC238.	sp Q9P0P0 Q9P0P0	76% 81%	444 490	31 443
HCQAS72	828082	470	blastx.2	(AF056191) TPA inducible protein [Homo sapiens]	gb AAC12944.1	100% 100% 93%	122 386 1010	286 463 1054
HCQBM95	841011	471	blastx.2	ribosomal protein L39, cytosolic [validated] - rat	pir C42229 R6RT39	88% 84%	282 409	389 447
HCRAI29	844084	479	blastx.2	hypothetical protein (L1H 3' region) - human	pir B34087 B34087	34% 39% 61% 56%	329 493 89 48	132 305 12 1
HCRL20	709660	481	blastx.2	CDNA FLJ20730 FIS, CLONE HEP10359.	sp Q9NWM9 Q9NWM9	99%	1	678
HCRCX84	1007105	482	WUblastx.6 4	(AL021578) dJ453C12.6.1 (uncharacterized hypothalamus protein (isoform 1)) [Homo sapiens]	emb CAC18108.1	91% 63%	37 51	177 617
HCRMA24	897005	483	blastx.2	hypothetical protein DKFZp564J2123.1 - human	pir T08683 T08683	97%	388	639

HCRMR35	849071	484	blastx.2	(fragment) (AJ298133) hypothetical protein [Homo sapiens]	emb CAC22252.1	51% 29%	43 1252	858 1554
HCRMR35	874743	485	blastx.2	(AJ298133) hypothetical protein [Homo sapiens]	emb CAC22252.1	51% 29%	43 1252	858 1554
HCRMR35	897434	486	blastx.2	(AJ298133) hypothetical protein [Homo sapiens]	emb CAC22252.1	52% 29%	43 1252	858 1554
HCROC18	884144	487	WUblastx.6 4	(AK023886) unnamed protein product [Homo sapiens]	dbj BAB14712.1	95%	7	1695
HCUAE53	665716	488	blastx.2	YUP8H12.2.	sp O23033 O23033	58% 80% 56% 63% 33% 28%	504 225 895 1299 1173 542	304 76 653 1135 1093 459
HCUAT74	834611	490	blastx.2	VAMP5.	sp O95183 O95183	100%	354	500
HCUBN69	826610	494	blastx.2	PRO0898.	sp AAG35479 AAG35479	65%	839	573
HCUBY47	842787	495	blastx.2	Calsyntenin-1 protein precursor.	sp CAC17788 CAC17788	94% 97%	513 1003	313 869
HCUCV66	806577	496	blastx.2	HYPOTHETICAL 12.4 KDA PROTEIN BK223H9.2.	sp Q9UH06 U123_HUM AN	99%	33	362
HCUFC77	745374	501	blastx.2	PRO2550.	sp AAG35515 AAG35515	61% 67% 59% 60%	1446 1541 1445 1276	1234 1449 1380 1232
HCUFD17	847039	502	blastx.2	HT005 protein.	sp AAG09696 AAG09696	100%	10	195
HCUFD46	757481	503	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	43%	580	386
HCUFX08	612843	508	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	dbj BAB21918.1	65% 55%	1329 1214	1216 1128
HCUHE27	562766	514	blastx.2	Hypothetical 15.8 kDa protein.	sp AAG17270 AAG17270	58%	818	651
HCWAK88	839083	517	blastx.2	probable excinuclease ABC chain A - Zymomonas mobilis	pir T33732 T33732	58% 81% 69% 32% 86%	956 1993 1306 815 435	42 1472 998 321 370

HCWAL10	639023	518	blastx.2	NUCLEAR ENVELOPE PORE MEMBRANE PROTEIN POM 121 (PORE 1	sp Q9Y2N3 N121_HUM AN	32% 44% 57% 33%	1969 441 1237 517	1814 367 1181 437
HCWDM69	684527	522	blastx.2	CDNA FLJ20378 FIS, CLONE KAlA0536.	sp Q9NX85 Q9NX85	71% 37% 60%	1049 817 886	900 605 818
HCWEB72	639041	524	blastx.2	CDNA FLJ20378 FIS, CLONE KAlA0536.	sp Q9NX85 Q9NX85	65% 57% 56%	757 612 872	617 508 798
HCWEI82	799516	526	blastx.2	PRO0974.	sp Q9PIN7 Q9PIN7	49%	384	656
HCWEM96	812735	527	blastx.2	probable ATP-binding component of ABC transporter PA3838 [imported] - Pseudomonas aeruginosa (strain PAO1)	pir G83165 G83165	74%	1901	1119
HCWHD30	834724	531	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp Q9NX17 Q9NX17	74%	799	590
HCWHT34	692400	532	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp BAB15056 BAB15056	58%	793	494
HCWHT52	834618	533	blastx.2	hypothetical protein UL126 - human cytomegalovirus (strain AD169)	pir S09875 S09875	75%	20	274
HCWKO32	610619	534	blastx.2	Hypothetical 14.1 kDa protein.	sp BAB12154 BAB12154	82%	496	600
HCWUW24	799517	537	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	69%	536	817
HCYBA32	847042	538	blastx.2	MSTP016.	sp AAG39277 AAG39277	99% 100%	925 329	1800 718
HDABR74	861789	540	blastx.2	7-DEHYDROCHOLESTEROL REDUCTASE (EC 1.3.1.21) (FRAGMENT).	sp O60717 O60717	99% 81%	69 5	908 37
HDFIB37	821339	545	blastx.2	collagen alpha 1(III) chain - bovine	pir A02862 CGB07S	34% 30% 28%	1051 1401 416	602 979 66

HDHEA33	847044	548	blastx.2	F25451_2.	sp O00320 O00320	30%	413	15
HDHEB12	610260	549	blastx.2	NEUROLIGIN 3 ISOFORM HNL3S (FRAGMENT).	sp Q9NZ96 Q9NZ96	100%	2	697
HDHEB80	809087	550	blastx.2	CDNA: FLJ22976 fis, clone KAT11222 (Fragment).	sp BAB15513 BAB15513	100%	657	731
						100%	657	731
						100%	657	731
						100%	657	731
						100%	657	731
						100%	658	732
						100%	659	733
						100%	659	733
						100%	658	732
						100%	659	733
						100%	658	732
						100%	658	732
						100%	659	733
						100%	659	733
HDHIA16	701976	551	blastx.2	CDNA: FLJ22976 fis, clone KAT11222 (Fragment).	sp BAB15513 BAB15513	82%	570	680
						93%	589	678
						96%	592	678
HDLAL94	843583	554	HMMER 2.1.1	PFAM: ADP-ribosylation factor family	PF00025	309.2	195	728
			WUblastx.6 4	(AK016359) putative [Mus musculus]	dbj BAB30204.1	100%	192	728
HDPAB86	901851	555	blastx.2	HEPATOCELLULAR CARCINOMA-ASSOCIATED ANTIGEN 66.	sp Q9NYH9 Q9NYH9	100%	310	1863
						58%	74	538
HDPAB80	778068	556	blastx.2	PHENYLALANYL-TRNA SYNTHETASE BETA CHAIN (EC 6.1.1.20) 1	sp Q9NSD9 SYFB_HUM AN	96%	881	1438
						93%	1435	1662
						56%	359	661
						78%	1604	1744
						33%	417	761
						31%	1584	1766
HDPAQ86	612855	557	blastx.2	CDNA: FLJ21394 fis, clone	sp BAB15056 BAB15056	76%	1250	1122

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Case	Age	Sex	Duration	Location	Findings	Comments
1	25	M	10 years	Right eye	Small, well-circumscribed, pigmented lesion	Benign melanocytic nevus
2	35	F	5 years	Left eye	Large, irregular, pigmented lesion	Malignant melanoma
3	45	M	15 years	Right eye	Small, well-circumscribed, pigmented lesion	Benign melanocytic nevus
4	55	F	20 years	Left eye	Large, irregular, pigmented lesion	Malignant melanoma
5	65	M	25 years	Right eye	Small, well-circumscribed, pigmented lesion	Benign melanocytic nevus
6	75	F	30 years	Left eye	Large, irregular, pigmented lesion	Malignant melanoma
7	85	M	35 years	Right eye	Small, well-circumscribed, pigmented lesion	Benign melanocytic nevus
8	95	F	40 years	Left eye	Large, irregular, pigmented lesion	Malignant melanoma

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HDPIE73	886158	572	blastx.2	UNNAMED PORTEIN PRODUCT.	sp Q9N083 Q9N083	55%	1819	2151
HDPIF65	847047	574	blastx.2	CDNA FLJ14058 fis, clone HEM5B1000554.	sp BAB14833 BAB14833	60%	236	12
HDPIH25	740749	575	blastx.2	FLJ00010 protein (Fragment).	sp BAB15711 BAB15711	90%	536	2266
						96%	99	539
						100%	858	968
						55%	796	939
						33%	1974	2300
						45%	742	825
HDPIY31	886159	576	blastx.2	hypothetical protein DKFZp434N1429.1 - human (fragment)	pir T46448 T46448	100%	1708	1899
HDPIH72	847048	577	blastx.2	MONOCARBOXYLATE TRANSPORTER 3 (MCT 3).	sp O15427 MOT3_HUM AN	100%	394	855
						100%	854	1192
						100%	1192	1473
						100%	77	295
						96%	294	392
						37%	1427	1498
HDPKC55	822869	580	HMMER 2.1.1	PFAM: Tubulin/FtsZ family	PF00091	177.8	108	797
			blastx.2	TUBULIN DELTA CHAIN (DELTA TUBULIN).	sp Q9UJT1 TBD_HUMA N	100%	102	1460
HDPKD16	897304	581	blastx.2	unnamed protein product [Homo sapiens]	emb CAB70443.1	100%	246	857
HDPMC52	847049	582	blastx.2	TNF AND APOL RELATED LIGAND TALL-1 (DTL PRECURSOR).	sp Q9Y275 Q9Y275	98%	67	447
						100%	7	72
HDPML04	822851	583	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	dbj BAB21918.1	65%	1421	1203
HDPNC21	839263	585	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	68%	1206	946
HDPNJ26	852338	586	blastx.2	glioma pathogenesis-related protein - human	pir JC4131 JC4131	44%	94	648
HDPD73	876202	587	blastx.2	PRO1722.	sp Q9P195 Q9P195	61%	78	185
						60%	16	90
						84%	173	211

HDPT33	892319	588	blastx.2	AQUAPORIN 3.	sp Q92482 AQP3_HUMAN	100%	53	928
HDPPB70	874027	589	blastx.2	hypothetical protein DKFZp564O0823.1 - human	pir T12458 T12458	98%	257	985
HDPPE05	809109	591	blastx.2	RNA BINDING PROTEIN (FRAGMENT).	sp Q9UQ39 Q9UQ39	94%	355	528
						100%	46	153
						100%	1041	1109
						73%	1068	1112
						52%	1050	1112
						57%	1050	1112
HDPSA70	722216	592	blastx.2	SQUAMOUS CELL CARCINOMA ANTIGEN RECOGNIZED BY T CELL.	sp Q9UL01 Q9UL01	42%	607	684
						38%	460	522
						40%	1047	1112
						52%	1053	1109
HDPTI49	847052	597	blastx.2	DOCK180 PROTEIN.	sp Q14185 Q14185	64%	1050	1091
						100%	13	285
HDPYE25	636058	599	blastx.2	NEURULA-SPECIFIC FERRODOXIN REDUCTASE-LIKE PROTEIN.	sp Q42346 Q42346	80%	903	1190
						78%	3	722
HDQGD06	838076	600	blastx.2	(AJ271326) unc-93 related protein [Homo sapiens]	emb CAC19791.1	98%	969	1574
						96%	454	996
						100%	59	463
HDQGD06	852673	601	blastx.2	(AJ271326) unc-93 related protein [Homo sapiens]	emb CAC19791.1	97%	969	1559
						96%	454	996
HDQGD06	881280	602	blastx.2	(AJ271326) unc-93 related protein [Homo sapiens]	emb CAC19791.1	100%	59	463
HDQGN08	840588	603	blastx.2	CDNA FLJ11786 fis, clone HEMBA1006036.	sp BAB13911 BAB13911	99%	59	1576
						58%	818	510
HDQGO62	837353	604	blastx.2	CG14407 PROTEIN.	sp Q9VY13 Q9VY13	68%	177	515
HDQPM16	886161	605	blastx.2	PROLINE-RICH PROTEIN.	sp O88675 O88675	98%	145	648
HDSA37	603518	609	blastx.2	CDNA FLJ12547 fis, clone NT2RM4000634.	sp BAB14128 BAB14128	46%	345	190
						39%	341	105



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a) $\alpha = 0.05$		b) $\alpha = 0.01$		c) $\alpha = 0.001$	
Test	Power	Test	Power	Test	Power
1. χ^2	0.85	1. χ^2	0.95	1. χ^2	0.99
2. χ^2	0.85	2. χ^2	0.95	2. χ^2	0.99
3. χ^2	0.85	3. χ^2	0.95	3. χ^2	0.99
4. χ^2	0.85	4. χ^2	0.95	4. χ^2	0.99
5. χ^2	0.85	5. χ^2	0.95	5. χ^2	0.99
6. χ^2	0.85	6. χ^2	0.95	6. χ^2	0.99
7. χ^2	0.85	7. χ^2	0.95	7. χ^2	0.99
8. χ^2	0.85	8. χ^2	0.95	8. χ^2	0.99
9. χ^2	0.85	9. χ^2	0.95	9. χ^2	0.99
10. χ^2	0.85	10. χ^2	0.95	10. χ^2	0.99
11. χ^2	0.85	11. χ^2	0.95	11. χ^2	0.99
12. χ^2	0.85	12. χ^2	0.95	12. χ^2	0.99
13. χ^2	0.85	13. χ^2	0.95	13. χ^2	0.99
14. χ^2	0.85	14. χ^2	0.95	14. χ^2	0.99
15. χ^2	0.85	15. χ^2	0.95	15. χ^2	0.99
16. χ^2	0.85	16. χ^2	0.95	16. χ^2	0.99
17. χ^2	0.85	17. χ^2	0.95	17. χ^2	0.99
18. χ^2	0.85	18. χ^2	0.95	18. χ^2	0.99
19. χ^2	0.85	19. χ^2	0.95	19. χ^2	0.99
20. χ^2	0.85	20. χ^2	0.95	20. χ^2	0.99
21. χ^2	0.85	21. χ^2	0.95	21. χ^2	0.99
22. χ^2	0.85	22. χ^2	0.95	22. χ^2	0.99
23. χ^2	0.85	23. χ^2	0.95	23. χ^2	0.99
24. χ^2	0.85	24. χ^2	0.95	24. χ^2	0.99
25. χ^2	0.85	25. χ^2	0.95	25. χ^2	0.99
26. χ^2	0.85	26. χ^2	0.95	26. χ^2	0.99
27. χ^2	0.85	27. χ^2	0.95	27. χ^2	0.99
28. χ^2	0.85	28. χ^2	0.95	28. χ^2	0.99
29. χ^2	0.85	29. χ^2	0.95	29. χ^2	0.99
30. χ^2	0.85	30. χ^2	0.95	30. χ^2	0.99
31. χ^2	0.85	31. χ^2	0.95	31. χ^2	0.99
32. χ^2	0.85	32. χ^2	0.95	32. χ^2	0.99
33. χ^2	0.85	33. χ^2	0.95	33. χ^2	0.99
34. χ^2	0.85	34. χ^2	0.95	34. χ^2	0.99
35. χ^2	0.85	35. χ^2	0.95	35. χ^2	0.99
36. χ^2	0.85	36. χ^2	0.95	36. χ^2	0.99
37. χ^2	0.85	37. χ^2	0.95	37. χ^2	0.99
38. χ^2	0.85	38. χ^2	0.95	38. χ^2	0.99
39. χ^2	0.85	39. χ^2	0.95	39. χ^2	0.99
40. χ^2	0.85	40. χ^2	0.95	40. χ^2	0.99
41. χ^2	0.85	41. χ^2	0.95	41. χ^2	0.99
42. χ^2	0.85	42. χ^2	0.95	42. χ^2	0.99
43. χ^2	0.85	43. χ^2	0.95	43. χ^2	0.99
44. χ^2	0.85	44. χ^2	0.95	44. χ^2	0.99
45. χ^2	0.85	45. χ^2	0.95	45. χ^2	0.99
46. χ^2					

[illegible]

055083-091201

[illegible]

[illegible]

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[illegible][illegible]

[illegible][illegible]

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[illegible][illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Parameter	Unit	Value	Unit	Value
Temperature	°C	25.0	Temperature	°C
Pressure	atm	1.0	Pressure	atm
Flow rate	L/min	1.0	Flow rate	L/min
Concentration	g/L	1.0	Concentration	g/L
Time	min	10	Time	min
Volume	L	1.0	Volume	L
Mass	g	1.0	Mass	g
Energy	J	1.0	Energy	J
Power	W	1.0	Power	W
Force	N	1.0	Force	N
Distance	m	1.0	Distance	m
Area	m ²	1.0	Area	m ²
Volume	m ³	1.0	Volume	m ³
Mass	kg	1.0	Mass	kg
Energy	J	1.0	Energy	J
Power	W	1.0	Power	W
Force	N	1.0	Force	N
Distance	m	1.0	Distance	m
Area	m ²	1.0	Area	m ²
Volume	m ³	1.0	Volume	m ³
Mass	kg	1.0	Mass	kg
Energy	J	1.0	Energy	J
Power	W	1.0	Power	W
Force	N	1.0	Force	N
Distance	m	1.0	Distance	m
Area	m ²	1.0	Area	m ²
Volume	m ³	1.0	Volume	m ³
Mass	kg	1.0	Mass	kg
Energy	J	1.0	Energy	J
Power	W	1.0	Power	W
Force	N	1.0	Force	N
Distance	m	1.0	Distance	m
Area	m ²	1.0	Area	m ²
Volume	m ³	1.0	Volume	m ³
Mass	kg	1.0	Mass	kg
Energy	J	1.0	Energy	J
Power	W	1.0	Power	W
Force	N	1.0	Force	N
Distance	m	1.0	Distance	m
Area	m ²	1.0	Area	m ²
Volume	m ³	1.0	Volume	m ³
Mass	kg	1.0	Mass	kg
Energy	J	1.0	Energy	J
Power	W	1.0	Power	W
Force	N	1.0	Force	N
Distance	m	1.0	Distance	m
Area	m ²	1.0	Area	m ²
Volume	m ³	1.0	Volume	m ³
Mass	kg	1.0	Mass	kg
Energy	J	1.0	Energy	J
Power	W	1.0	Power	W
Force	N	1.0	Force	N
Distance	m	1.0	Distance	m
Area	m ²	1.0	Area	m ²
Volume	m ³	1.0	Volume	m ³
Mass	kg	1.0	Mass	kg
Energy	J	1.0	Energy	J
Power	W	1.0	Power	W
Force	N	1.0	Force	N
Distance	m	1.0	Distance	m
Area	m ²	1.0	Area	m ²
Volume	m ³	1.0	Volume	m ³
Mass	kg	1.0	Mass	kg
Energy	J	1.0	Energy	J
Power	W	1.0	Power	W
Force	N	1.0	Force	N
Distance	m	1.0	Distance	m
Area	m ²	1.0	Area	m ²
Volume	m ³	1.0	Volume	m ³
Mass	kg	1.0	Mass	kg
Energy	J	1.0	Energy	J
Power	W	1.0	Power	W
Force	N	1.0	Force	N
Distance	m	1.0	Distance	m
Area	m ²	1.0	Area	m ²
Volume	m ³	1.0	Volume	m ³
Mass	kg	1.0	Mass	kg
Energy	J	1.0	Energy	J
Power	W	1.0	Power	W
Force	N	1.0	Force	N
Distance	m	1.0	Distance	m
Area	m ²	1.0	Area	m ²
Volume	m ³	1.0	Volume	m ³
Mass	kg	1.0	Mass	kg
Energy	J	1.0	Energy	J
Power	W	1.0	Power	W
Force	N	1.0	Force	N
Distance	m	1.0	Distance	m
Area				

[illegible]

FD-2150-28005660

								100%	723	887
								100%	721	885
								100%	722	886
								100%	723	887
								100%	721	885
								100%	722	886
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								100%	723	887
								100%	721	885
								100%	722	886
								100%	723	887
								100%	723	887



HE2AC74	901343	631	blastx.2	GUANINE NUCLEOTIDE- BINDING PROTEIN G(I)/G(S)/G(O) 1	sp Q9UBI6 GBGC_HUM AN	100%	722	886
						100%	723	887
						100%	721	885
						100%	722	886
						100%	723	887
						96%	719	886
						98%	723	887
						96%	722	886
						96%	723	887
						96%	721	885
						100%	210	422
HE2AI94	772542	633	blastx.2	(AP002460) gene_id:FID9.26~unknown protein [Arabidopsis thaliana]	dbj BAA97098.1	97%	663	764
						100%	666	764
						100%	665	763
						100%	665	763
						100%	666	764
						100%	665	763
						100%	666	764
						100%	665	763
						100%	665	763
						100%	666	764
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						100%	665	763
						100%	665	763
						100%	666	764
						100%	666	764
						100%	665	763
						100%	666	764
						100%	665	763
						100%	665	763
						100%	666	764
						100%	666	764

Case	Age	Sex	Duration	Location	Findings	Diagnosis
1	25	M	10 years	Right eye	Large, well-circumscribed, pigmented lesion	Choroidal melanoma
2	35	F	5 years	Left eye	Small, well-circumscribed, pigmented lesion	Choroidal melanoma
3	45	M	15 years	Right eye	Large, well-circumscribed, pigmented lesion	Choroidal melanoma
4	55	F	20 years	Left eye	Small, well-circumscribed, pigmented lesion	Choroidal melanoma
5	65	M	25 years	Right eye	Large, well-circumscribed, pigmented lesion	Choroidal melanoma
6	75	F	30 years	Left eye	Small, well-circumscribed, pigmented lesion	Choroidal melanoma
7	85	M	35 years	Right eye	Large, well-circumscribed, pigmented lesion	Choroidal melanoma
8	95	F	40 years	Left eye	Small, well-circumscribed, pigmented lesion	Choroidal melanoma
9	105	M	45 years	Right eye	Large, well-circumscribed, pigmented lesion	Choroidal melanoma
10	115	F	50 years	Left eye	Small, well-circumscribed, pigmented lesion	Choroidal melanoma

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[illegible][illegible]

096003-091701

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Figure	Figure	Figure	Figure	Figure	Figure	Figure	Figure	Figure	Figure
Figure 1	Figure 2	Figure 3	Figure 4	Figure 5	Figure 6	Figure 7	Figure 8	Figure 9	Figure 10

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Case	Age	Sex	Duration of illness	Onset	Course	Outcome
1	10	M	10 days	Acute	Recovery	Good
2	12	F	15 days	Acute	Recovery	Good
3	14	M	20 days	Acute	Recovery	Good
4	16	F	25 days	Acute	Recovery	Good
5	18	M	30 days	Acute	Recovery	Good
6	20	F	35 days	Acute	Recovery	Good
7	22	M	40 days	Acute	Recovery	Good
8	24	F	45 days	Acute	Recovery	Good
9	26	M	50 days	Acute	Recovery	Good
10	28	F	55 days	Acute	Recovery	Good
11	30	M	60 days	Acute	Recovery	Good
12	32	F	65 days	Acute	Recovery	Good
13	34	M	70 days	Acute	Recovery	Good
14	36	F	75 days	Acute	Recovery	Good
15	38	M	80 days	Acute	Recovery	Good
16	40	F	85 days	Acute	Recovery	Good
17	42	M	90 days	Acute	Recovery	Good
18	44	F	95 days	Acute	Recovery	Good
19	46	M	100 days	Acute	Recovery	Good
20	48	F	105 days	Acute	Recovery	Good
21	50	M	110 days	Acute	Recovery	Good
22	52	F	115 days	Acute	Recovery	Good
23	54	M	120 days	Acute	Recovery	Good
24	56	F	125 days	Acute	Recovery	Good
25	58	M	130 days	Acute	Recovery	Good
26	60	F	135 days	Acute	Recovery	Good
27	62	M	140 days	Acute	Recovery	Good
28	64	F	145 days	Acute	Recovery	Good
29	66	M	150 days	Acute	Recovery	Good
30	68	F	155 days	Acute	Recovery	Good
31	70	M	160 days	Acute	Recovery	Good
32	72	F	165 days	Acute	Recovery	Good
33	74	M	170 days	Acute	Recovery	Good
34	76	F	175 days	Acute	Recovery	Good
35	78	M	180 days	Acute	Recovery	Good
36	80	F	185 days	Acute	Recovery	Good
37	82	M	190 days	Acute	Recovery	Good
38	84	F	195 days	Acute	Recovery	Good
39	86	M	200 days	Acute	Recovery	Good
40	88	F	205 days	Acute	Recovery	Good
41	90	M	210 days	Acute	Recovery	Good
42	92	F	215 days	Acute	Recovery	Good
43	94	M	220 days	Acute	Recovery	Good
44	96	F	225 days	Acute	Recovery	Good
45	98	M	230 days	Acute	Recovery	Good
46	100	F	235 days	Acute	Recovery	Good
47	102	M	240 days	Acute	Recovery	Good
48	104	F	245 days	Acute	Recovery	Good
49	106	M	250 days	Acute	Recovery	Good
50	108	F	255 days	Acute	Recovery	Good
51	110	M	260 days	Acute	Recovery	Good
52	112	F	265 days	Acute	Recovery	Good
53	114	M	270 days	Acute	Recovery	Good
54	116	F	275 days	Acute	Recovery	Good
55	118	M	280 days	Acute	Recovery	Good
56	120	F	285 days	Acute	Recovery	Good
57	122	M	290 days	Acute	Recovery	Good
58	124	F	295 days	Acute	Recovery	Good
59	126	M	300 days	Acute	Recovery	Good
60	128	F	305 days	Acute	Recovery	Good
61	130	M	310 days	Acute	Recovery	Good
62	132	F	315 days	Acute	Recovery	Good
63	134	M	320 days	Acute	Recovery	Good
64	136	F	325 days	Acute	Recovery	Good
65	138	M	330 days	Acute	Recovery	Good

[illegible]

[illegible]

SECRET

DECLASSIFICATION AUTHORITY: 25X-10769
DATE OF REVIEW: 08/20/2013
REVIEWER: [redacted]
APPROVAL: [redacted]

SECRET

[illegible]



HE2AT61	834039	634	blastx.2	(AY012159) virion-associated nuclear-shuttling protein [Mus musculus]	gb AAG42155.1	100%	667	765
HE2AX36	812337	635	blastx.2	UBIQUITIN-SPECIFIC PROTEASE HOMOLOG.	sp Q9Y5B5 Q9Y5B5	99%	1292	300
HE2AY96	796800	636	blastx.2	UBIQUITIN-CONJUGATING ENZYME E2-32 KDA COMPLEMENTING (EC 1.1	sp Q29503 UBC3_RABIT	100%	38	751
HE2BD72	600349	637	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp Q9NX85 Q9NX85	77%	650	522
HE2BH50	847056	638	blastx.2	15 KDA SELENOPROTEIN PRECURSOR.	sp O60613 SE15_HUMA N	66%	496	371
HE2CC17	566806	640	blastx.2	retrovirus-related reverse transcriptase pseudogene - slow loris	pir B25313 GNLRL1	37%	657	490
HE2CJ53	637592	641	blastx.2	CDNA FLJ11274 FIS, CLONE PLACE1009368, WEAKLY SIMILAR TO 1	sp Q9NUM3 Q9NUM3	100%	226	405
						62%	996	694
						60%	731	522
						58%	540	349
						50%	344	180
						67%	97	5
						38%	195	25
						64%	1037	996
						54%	937	905
						100%	266	412
						100%	123	266

HE2DI16	604029	645	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	78%	1515	1231
HE2DJ84	746643	646	blastx.2	MITOCHONDRIAL 28S RIBOSOMAL PROTEIN S28 (MRP-S28).	sp P82673 P82673	100%	2	313
HE2DY23	877491	647	blastx.2	CG17149 PROTEIN.	sp Q9VW97 Q9VW97	48%	1018	1284
HE2DY25	844237	648	blastx.2	Hypothetical 12.9 kDa protein.	sp BAB12124 BAB12124	61%	2028	1897
HE2EH45	581520	650	blastx.2	MSTP030.	sp AAG39281 AAG39281	74% 63% 73% 66%	97 8 690 895	762 250 815 930
HE2FE89	780314	651	blastx.2	ENH3.	sp Q9QYN1 Q9QYN1	95%	224	541
HE2FR49	714456	652	blastx.2	CDNA FLJ11219 FIS, CLONE PLACE1008122.	sp Q9NUP7 Q9NUP7	100% 64%	92 63	400 104
HE2GB19	566808	653	blastx.2	ENVELOPE PROTEIN (FRAGMENT).	sp Q95245 Q95245	63% 39% 41%	140 246 397	247 362 519
HE2HB61	798113	655	blastx.2	SARCOLIPIN.	sp O00631 SARL_HUMA N	100%	154	246
HE2HF76	637594	657	blastx.2	Protein serine threonine kinase Clk4.	sp AAG10074 AAG10074	100%	11	859
HE2IE66	830436	659	blastx.2	X-LIKE 1 PROTEIN.	sp Q9Y485 Q9Y485	65%	101	514
HE2NW57	638615	660	WUblastx.6 4	ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1	gb AAB00807.1	46% 86%	454 314	492 472
HE2OA95	637595	661	blastx.2	(AF242222) TPEF [Homo sapiens]	gb AAG49452.1 AF24222 2_1	98%	1665	1231
HE2PB61	847379	663	blastx.2	CTL1 PROTEIN.	sp Q9JIZ7 Q9JIZ7	52%	3	650
HE2PI43	847380	664	blastx.2	CDNA FLJ13697 fis, clone PLACE2000172.	sp BAB14669 BAB14669	100%	234	407
HE6C141	604908	666	blastx.2	PRO1438.	sp Q9P1H3 Q9P1H3	72%	1076	945
HE8BP05	845980	675	blastx.2	(AP002460) gene_id:F1D9.26-unknown protein [Arabidopsis thaliana]	dbj BAA97098.1	81% 88% 100% 100% 100%	1713 1727 1745 1745 1745	1859 1858 1858 1858 1858



a) $\alpha = 0.05$		b) $\alpha = 0.01$		c) $\alpha = 0.001$	
Test	Power	Test	Power	Test	Power
W	0.85	W	0.75	W	0.65
L	0.80	L	0.70	L	0.60
F	0.82	F	0.72	F	0.62
P	0.83	P	0.73	P	0.63
G	0.84	G	0.74	G	0.64
H	0.86	H	0.76	H	0.66
I	0.87	I	0.77	I	0.67
J	0.88	J	0.78	J	0.68
K	0.89	K	0.79	K	0.69
L	0.90	L	0.80	L	0.70
M	0.91	M	0.81	M	0.71
N	0.92	N	0.82	N	0.72
O	0.93	O	0.83	O	0.73
P	0.94	P	0.84	P	0.74
Q	0.95	Q	0.85	Q	0.75
R	0.96	R	0.86	R	0.76
S	0.97	S	0.87	S	0.77
T	0.98	T	0.88	T	0.78
U	0.99	U	0.89	U	0.79
V	1.00	V	0.90	V	0.80
W	1.00	W	0.91	W	0.81
X	1.00	X	0.92	X	0.82
Y	1.00	Y	0.93	Y	0.83
Z	1.00	Z	0.94	Z	0.84



HE8BP64	847059	676	blastx.2	sugar transporter protein HiAT1 - mouse	pir JC5641 JC5641	100%	1746	1859
HE8BQ49	589443	677	blastx.2	hypothetical protein - human transposon MER37	pir \$72482 \$72482	64% 75% 46%	105 343 221	248 474 487
HE8BR18	731933	678	blastx.2	CDNA FLJ10335 FIS, CLONE NT2RM2000669.	sp Q9NW38 Q9NW38	100%	654	1091
HE8BT58	806144	680	WUblastx.6 4	(AF356518) junctional adhesion molecule 3 precursor [Homo sapiens]	gb AAK27221.1 AF35651 8_1	91%	80	937
HE8CC34	753266	683	blastx.2	HYPOTHETICAL PROTEIN	sp Q14288 Q14288	46%	1223	954

					(FRAGMENT).				55%	427	233
HE8DZ94	877630	687	blastx.2	CGI-119 PROTEIN.	sp Q9Y3C2 Q9Y3C2				55%	1501	1391
HE8EX86	823176	689	blastx.2	CDNA: FLJ21661 fis, clone COL08837.	sp BAB15109 BAB15109				30%	239	42
									36%	1153	1088
HE8FC10	693908	690	HMMER 2.1.1	PFAM: Zinc finger, C2H2 type	PF00096				100%	1256	1657
			blastx.2	CDNA FLJ13479 fis, clone PLACE1003738, weakly similar to 1	sp BAB14602 BAB14602				99%	6	749
HE8FG15	799520	691	blastx.2	PROTEIN 4.1-G.	sp O43491 O43491				34%	6	818
HE8FG24	733560	692	blastx.2	GLYCEROL-3-PHOSPHATE TRANSPORTER (G-3-P TRANSPORTER) 1	sp P57057 GLPT_HUMAN				45%	417	674
									44%	438	674
HE8FK78	852180	693	blastx.2	(AK023899) unnamed protein product [Homo sapiens]	dbj BAB14714.1				36%	423	674
									48%	6	134
HE8FR53	843807	696	blastx.2	PRO1107.	sp AAG35531 AAG35531				44%	48	134
HE8MQ01	836800	699	blastx.2	PRO1902 PROTEIN.	sp Q9UHT1 Q9UHT1				99%	226	1197
HE8NC81	862015	702	blastx.2	(AF037402) butyrophilin [Bos taurus]	gb AAB92578.1				100%	94	522
									90%	11	76
HE8NC81	1096692	2602	HMMER 2.1.1	PFAM: Immunoglobulin domain	PF00047				88%	269	1372
			WUblastx.6 4	(AK026071) unnamed protein product [Homo sapiens]	dbj BAB15349.1				80%	72	266
HE8QU21	838391	704	blastx.2	(AB055263) hypothetical protein [Macaca fascicularis]	dbj BAB21887.1				100%	1	75
									98%	3411	3181
HE8SH74	833053	705	blastx.2	PRO2550.	sp AAG35515 AAG35515				71%	2692	2483
									24%	216	800
									28.3	563	814
									90%	419	1264
									44%	1391	1125
									76%	3017	2868
									52%	3153	3034

HE8UX34	838170	706	blastx.2	CDNA FLJ13310 fis, clone OVARC1001453.	sp BAB14547 BAB14547	50% 69%	3154 2476	3095 2441
HE9AE05	863257	707	blastx.2	CDNA FLJ12547 fis, clone NT2RM4000634.	sp BAB14128 BAB14128	45% 42% 36%	484 484 35	687 690 211
HE9CJ38	565082	710	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp BAB15056 BAB15056	58% 54%	1207 1382	1079 1245
HE9CN58	562768	712	blastx.2	YY1-ASSOCIATED FACTOR 2.	sp Q99710 Q99710	99%	6	359
HE9CV59	847061	713	blastx.2	(AX061598) unnamed protein product [Homo sapiens]	emb CAC24974.1	100%	73	432
HE9DG54	821326	714	blastx.2	UNNAMED PORTEIN PRODUCT.	sp Q9N083 Q9N083	53%	1508	1197
HE9DH59	886059	715	blastx.2	(AJ303077) mitochondrial RNA splicing protein 3/4 [Homo sapiens]	emb CAC27996.1	100% 91% 31% 100% 41%	1513 9 1519 7 11	2085 419 2043 51 199
HE9EM54	560627	718	blastx.2	PVA1 GENE.	sp Q26195 Q26195	49% 60%	531 775	755 864
HE9FH28	633737	719	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	58%	965	591
HE9HE13	868829	720	blastx.2	PRO2160.	sp Q9P183 Q9P183	100%	434	183
HE9HE13	824328	721	blastx.2	PROTEIN PRO0518.	sp Q9UI56 P518_HUMAN	100%	665	462
HE9HF59	664485	722	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	dbj BAB21918.1	46%	1614	1276
HE9TA42	834972	727	blastx.2	CG10882 PROTEIN.	sp Q9VQ94 Q9VQ94	58% 38% 55% 41%	38 1674 1414 2150	1462 2138 1674 2251
HEAAC21	581048	728	blastx.2	CDNA FLJ10980 FIS, CLONE PLACE1001570.	sp Q9NV24 Q9NV24	92%	76	246
HEAAD63	603321	731	blastx.2	CDNA FLJ20378 FIS, CLONE	sp Q9NX85 Q9NX85	59%	819	511

HEAAM96	562769	734	blastx.2	KAIA0536. DJ336K20B.1 (novel protein based on FGENESH) (Fragment).	sp CAC09365 CAC09365	53%	844	806
HEAAN52	862020	735	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	dbj BAB21918.1	55%	796	1104
HEAAW94	847340	738	blastx.2	ACTIN-BINDING PROTEIN HOMOLOG ABP-278.	sp Q9UEV9 Q9UEV9	99%	285	890
						45%	285	884
						40%	285	884
						37%	285	872
						36%	285	884
						36%	285	878
						35%	285	884
						36%	303	887
						36%	285	881
						36%	285	878
						32%	288	887
						33%	285	869
						32%	279	884
						33%	288	884
						32%	285	863
						34%	285	878
						35%	315	848
						33%	309	824
						33%	429	857
						44%	285	539
						27%	321	824
						37%	552	824
HEBAT05	637602	740	blastx.2	CDNA FLJ20568 FIS, CLONE REC00775.	sp Q9NWW0 Q9NWW0	96%	111	380
						94%	24	131
HEBCN80	596808	743	blastx.2	(AB055280) hypothetical protein [Macaca fascicularis]	dbj BAB21904.1	30%	293	451
HEBDF90	835835	745	blastx.2	IA13 PROTEIN.	sp Q9JMK4 Q9JMK4	53%	666	788
HEBGM06	842527	752	blastx.2	BRAIN CDNA, CLONE MNCB-3966 (FRAGMENT).	sp Q9JJ92 Q9JJ92	57%	782	865
						50%	34	405
HEEAF49	880521	754	blastx.2	PRO2822.	sp Q9P147 Q9P147	73%	7	186
						80%	2123	1896

HHEAJ46	637623	755	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp O60448 O60448	71% 65% 57% 62% 56% 61% 51% 53% 52% 57% 33% 43% 47% 40% 50% 50% 60% 36% 31% 27%	1631 1626 2360 2367 2412 1659 1574 2241 1506 1493 1685 2312 2225 2282 1602 2150 2169 2227 1695 1762	1368 1426 2109 2158 2218 1483 1416 2080 1381 1368 1416 2172 2073 2172 1519 2061 2125 2084 1561 1649
HEGAI20	825818	756	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	56% 75%	911 260	759 237
HEIAC52	826611	757	blastx.2	CDNA: FLJ22429 fis, clone HRC09084.	sp BAB15355 BAB15355	96%	7	915
HELAC55	610078	758	blastx.2	(AP002460) gene_id:FID9.26~unknown protein [Arabidopsis thaliana]	dbj BAA97098.1	39% 38% 47% 47% 47% 47% 47% 47% 47% 47% 47% 47% 47%	743 765 743 743 743 743 743 743 743 743 743 743 743	477 508 540 540 540 540 540 540 540 540 540 540 540

HELEL76	839470	767	blastx.2	Caenorhabditis elegans PRO2550.	sp AAG35515 AAG35515	64% 77%	1250 1087	1065 956
HELEO45	847067	768	blastx.2	CDNA: FLJ21982 fis, clone HEP06188.	sp BAB15197 BAB15197	99% 92%	7 1385	1392 1423
HELFA57	845981	769	blastx.2	WUGSC:H_DJ0771P04.2 PROTEIN (FRAGMENT).	sp O95761 O95761	95% 78% 95% 45%	340 62 9 1779	1362 409 137 1838
HELHN47	872795	773	blastx.2	(AK00982) unnamed protein product [Homo sapiens]	dbj BAA91454.1	91%	1233	772
HELHP11	638064	774	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp BAB15056 BAB15056	76%	1429	1313
HELHP11	851116	775	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp BAB15056 BAB15056	78%	1450	1313
HEMBV40	847069	777	blastx.2	NADH dehydrogenase (ubiquinone) (EC 1.6.5.3) Cl- B12 chain - human	pir JC5822 JC5822	100%	762	1055
HEMC180	765041	778	blastx.2	DHHC1 PROTEIN.	sp Q9NYG2 Q9NYG2	77% 52% 53% 79%	155 3 474 401	403 206 647 487
HEMDB07	617137	780	blastx.2	CDNA FLJ20378 FIS, CLONE KALA0536.	sp Q9NX85 Q9NX85	69%	346	705
HEMGK71	847374	782	blastx.2	CDNA FLJ20378 FIS, CLONE KALA0536.	sp Q9NX85 Q9NX85	64% 80%	1576 1383	1352 1258
HEOMU44	778085	787	blastx.2	CG7728 PROTEIN.	sp Q9VVC9 Q9VVC9	49%	826	1470
HEONI85	566833	788	blastx.2	hypothetical 43.5K protein - mouse	pir JU0319 JU0319	90% 77% 82%	382 236 657	672 421 755
HEONK04	658682	789	blastx.2	BRIDGING INTEGRATOR-2.	sp Q9UKN4 Q9UKN4	96%	138	1070
HEONP08	601691	790	blastx.2	HYPOTHETICAL 15.7 KDA PROTEIN.	sp Q9Y349 Q9Y349	100%	924	511
HEPBC23	799985	792	blastx.2	D11182A14.3 (similar to MST1 (macrophage stimulating 1 1	sp CAC17639 CAC17639	92%	4	303
HEPCU48	805585	795	blastx.2	PROTEIN O-MANNOSYL-	sp Q9UNT2 Q9UNT2	87%	315	1490

HFAAI17	607563	822	blastx.2	PRO2550.	sp AAG35515 AAG35515	58% 61%	227 426	412 518
HFADF41	607557	824	blastx.2	Hypothetical 12.9 kDa protein.	sp BAB12124 BAB12124	56%	613	750
HFADM09	899435	825	blastx.2	DYSTROBREVIN-ZETA.	sp Q13198 Q13198	100%	382	480
HFAUA23	636071	826	blastx.2	CDNA FLJ12988 fis, clone NT2RP3000080.	sp BAB14376 BAB14376	61%	495	334
HFCAG75	834834	827	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	76%	777	493
HFCAI40	866441	828	HMMER 2.1.1	PFAM: TPR Domain	PF00515	52.6	167	253
HFCAQ17	695720	829	blastx.2	CG8777 PROTEIN.	sp Q9V532 Q9V532	36%	20	1021
HFCBC16	559312	830	blastx.2	NADH dehydrogenase (ubiquinone) (EC 1.6.5.3) chain NDUFA3 - human	pir E0379 E0379	78%	20	238
HFCBT29	654842	834	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	dbj BAB21918.1	66%	1002	808
HFCBN13	722221	836	blastx.2	CDNA FLJ12756 fis, clone NT2RP2001295, weakly similar to 1	sp BAB14258 BAB14258	73%	80	280
HFCDT67	598900	837	blastx.2	HSPC186.	sp Q9P0T7 Q9P0T7	98%	2	187
				(AL136723) hypothetical protein [Homo sapiens]	emb CAB66657.1	97% 80% 77% 41% 34% 45%	9 498 845 170 88 373	455 902 910 286 270 438
HFCDY36	834512	838	blastx.2	catalase (EC 1.11.1.6) - Campylobacter jejuni	pir I40767 I40767	93%	279	190
HFCFC45	847384	839	blastx.2	CG8009 PROTEIN.	sp Q9VTA4 Q9VTA4	59%	89	430
HFCET43	596813	840	blastx.2	ACETYLGLUCOSAMINYLT RANSFERASE-LIKE PROTEIN.	sp Q9Z1M7 Q9Z1M7	100%	7	144
HFEAG55	838142	841	blastx.2	SMT3 isopeptidase 1.	sp AAG28418 AAG28418	100%	12	200
HFEAU63	790190	842	blastx.2	EYES ABSENT HOMOLOG 1.	sp Q99502 EYA1_HUMA N	90%	2180	2028
HFEBO15	831772	845	blastx.2	Hypothetical 42.8 kDa protein.	sp AAG17975 AAG17975	79%	112	477

HFEBO17	852218	846	blastx.2	CDNA FLJ20265 FIS, CLONE COLP9334.	sp Q9NXG5 Q9NXG5	49%	2	337
HFFAE46	654843	847	blastx.2	NON-FUNCTIONAL FOLATE BINDING PROTEIN.	sp O14597 O14597	56% 84% 77% 78% 75% 58%	402 667 608 386 499 602	749 801 751 442 534 649
HFFAH01	843438	848	blastx.2	hypothetical protein DKFZp434P1721.1 - human (fragment)	pir T43460 T43460	90% 98% 58%	818 259 714	489 11 241
HFFAL70	827570	849	blastx.2	PRO1902 PROTEIN.	sp Q9UHT1 Q9UHT1	60% 63%	1079 981	969 916
HFFAV61	664486	850	blastx.2	CRK-ASSOCIATED SUBSTRATE (P130CAS) (BREAST CANCER ANTI-ESTROGEN RESISTANCE 1 PROTEIN).	sp P56945 BCA1_HUMAN	92% 50%	1636 577	1184 536
HFGAE28	815658	852	blastx.2	CDNA: FLJ22976 fis, clone KAT11222 (Fragment).	sp BAB15513 BAB15513	79% 85% 78% 96%	1827 1847 1842 1863	1943 1951 1952 1952
HFGAN63	708053	853	blastx.2	TUMOR SUPPRESSOR (LUCA-1).	sp Q12794 Q12794	45% 53%	153 561	533 605
HFIAB78	581054	855	blastx.2	F-BOX PROTEIN FBL5 (FRAGMENT).	sp Q9UKA1 Q9UKA1	100% 100% 36% 32% 58%	14 672 690 461 608	667 872 836 661 658
HFIK29	843587	860	blastx.2	CDNA: FLJ21611 fis, clone COL07344.	sp BAB15095 BAB15095	94%	48	218
HFIK29	852308	861	blastx.2	CDNA: FLJ21611 fis, clone COL07344.	sp BAB15095 BAB15095	94%	48	218
HFIK29	873681	862	blastx.2	CDNA: FLJ21611 fis, clone COL07344.	sp BAB15095 BAB15095	94%	48	218
HFIK29	885007	863	blastx.2	CDNA: FLJ21611 fis, clone COL07344.	sp BAB15095 BAB15095	94%	48	218

HFIZ61	855939	866	blastx.2	COL07344. PROSTAGLANDIN F2- ALPHA RECEPTOR REGULATORY PROTEIN 1	sp Q62786 FPRP_RAT	92%	2	229
HFITF80	608210	870	blastx.2	Hypothetical 8.0 kDa protein.	sp BAB12345 BAB12345	53%	830	684
HFUT21	794323	872	blastx.2	CDNA FLJ11020 FIS, CLONE PLACE1003625, WEAKLY SIMILAR TO 1	sp Q9NV02 Q9NV02	98%	6	260
HFXC39	683053	874	blastx.2	hypothetical protein 1 - rat (fragment)	pir S33477 S33477	40%	1843	1541
HFXC69	704080	875	blastx.2	NADH:UBIQUINONE OXIDOREDUCTASE MLRQ SUBUNIT HOMOLOG.	sp Q9NRX3 Q9NRX3	100%	32	292
HFIXE39	844408	876	blastx.2	PYRUVATE DEHYDROGENASE PROTEIN X COMPONENT, MITOCHONDRIAL 1 1	sp O00330 ODPX_HUM AN	100%	1394	1651
HFYIP15	688044	877	blastx.2	Zinc metalloendopeptidase (Fragment).	sp AAG35563 AAG35563	49% 32% 37% 37% 33% 34%	430 553 418 712 577 481	1074 1110 663 966 738 558
HFIZF51	532598	879	blastx.2	(AP002460) gene_id:F1D9.26--unknown protein [Arabidopsis thaliana]	dbj BAA97098.1	65% 65% 72% 72% 72% 72% 72% 72% 72% 72% 72% 72%	243 243 255 255 255 255 255 255 255 255 255 255	383 383 383 383 383 383 383 383 383 383 383 383

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[illegible]

Case	Age	Sex	Occupation	Duration of illness	Onset	Course	Outcome
1	25	M	Student	10 days	Acute	Recovery	Good
2	30	F	Housewife	15 days	Subacute	Recovery	Good
3	35	M	Teacher	20 days	Chronic	Recovery	Good
4	40	F	Office worker	25 days	Chronic	Recovery	Good
5	45	M	Farmer	30 days	Chronic	Recovery	Good
6	50	F	Retiree	35 days	Chronic	Recovery	Good
7	55	M	Businessman	40 days	Chronic	Recovery	Good
8	60	F	Homemaker	45 days	Chronic	Recovery	Good
9	65	M	Retiree	50 days	Chronic	Recovery	Good
10	70	F	Homemaker	55 days	Chronic	Recovery	Good

[illegible]

[illegible][illegible]

[illegible][illegible]

[illegible][illegible]

[illegible][illegible]

[illegible][illegible]

[illegible][illegible]

Figure 1 consists of 12 subplots arranged in a 4x3 grid, labeled (a) through (l). Each subplot shows a histogram of the number of particles (x-axis, ranging from 0 to 100) versus probability (y-axis, ranging from 0 to 1). The subplots represent the evolution of the probability distribution at different time steps: (a) $t=0$, (b) $t=1$, (c) $t=2$, (d) $t=3$, (e) $t=4$, (f) $t=5$, (g) $t=6$, (h) $t=7$, (i) $t=8$, (j) $t=9$, (k) $t=10$, and (l) $t=11$. The distribution starts as a single peak at 0 particles at $t=0$ and spreads out over time, with the peak moving to the right and the distribution becoming more complex.

[illegible]

[illegible][illegible]

[illegible]

HFKEU17	815554	889	blastx.2	NT2RP1000574, HIGHLY SIMILAR TO 1	sp O95257 G45G_HUMA N	100% 97%	464 226	784 330
HFKEV77	850678	890	blastx.2	hypothetical protein DKFZp564B167.1 - human	pir T14797 T14797	100%	205	585
HFKEF15	775846	891	blastx.2	FORKHEAD BOX PROTEIN C1 (FORKHEAD-RELATED PROTEIN FKHL7) 1	sp Q12948 FXC1_HUMA N	100%	2	166
HFKEFK49	847077	893	blastx.2	MAP KINASE- INTERACTING KINASE.	sp Q9UHR0 Q9UHR0	100%	277	366
HFOXD49	844524	898	blastx.2	YA22 PROTEIN (HYA22).	sp O15194 O15194	99%	7	435
HFOXEX28	847385	899	blastx.2	(AL136837) hypothetical protein [Homo sapiens]	emb CAB66771.1	59% 38% 56% 40% 41%	1011 102 371 262 1414	1286 476 538 633 1764
HFOYR54	743196	903	blastx.2	U3 SMALL NUCLEOLAR RIBONUCLEOPROTEIN PROTEIN MPP10 (M 1	sp O00566 MP10_HUMA N	100%	1	1377
HFPBQ55	608171	909	blastx.2	ELASTIN LIKE PROTEIN (FRAGMENT).	sp Q24333 Q24333	100%	45	116
HFPDM32	608215	911	blastx.2	CDNA FLJ12155 fis, clone MAMMA1000472.	sp BAB13989 BAB13989	52%	723	442
HFPDU47	741049	914	blastx.2	PRO0898.	sp AAG35479 AAG35479	60%	1677	1429
HFPDY66	825718	915	blastx.2	PRO2550.	sp AAG35515 AAG35515	73% 72% 50%	1570 1383 1451	1424 1252 1392
HFPDC65	839208	916	blastx.2	CDNA: FLJ23451 fis, clone HSI06456.	sp BAB15658 BAB15658	100%	72	605
HFPDE42	844402	917	blastx.2	(AF220039) tripartite motif protein TRIM9 [Mus 1	gb AAG53493.1 AF22003 9_1	97%	3	218
HFPDP70	745433	920	blastx.2	CDNA FLJ13078 fis, clone NT2RP3002002.	sp BAB14424 BAB14424	58% 74% 88%	980 910 879	1096 990 905

HFPDX08	746379	922	blastx.2	CDNA FLJ12474 fis, clone NT2RM1000927.	sp BAB14085 BAB14085	100%	3	317
HFPPEP69	835459	923	blastx.2	LIPOPOLYSACCHARIDE SPECIFIC RESPONSE-5 PROTEIN (FRAGMENT).	sp Q9P0X1 Q9P0X1	96%	654	749
HFRU40	701986	924	blastx.2	hypothetical protein 3 - human	pir E41925 E41925	46% 57% 34%	428 511 228	252 428 109
HFSAY91	828067	926	blastx.2	hypothetical protein DKFZp434M035.1 - human	pir T46933 T46933	98% 100%	1096 1280	437 1197
HFSBC10	638315	927	blastx.2	SEMAPHORIN 3D PRECURSOR.	sp O95025 SM3D_HUMAN	100% 81% 100% 54%	1437 626 234 742	739 225 67 443
HFSBE94	600398	928	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp Q9NX17 Q9NX17	75%	876	610
HFTAN11	638316	929	blastx.2	PRO2550.	sp AAG35515 AAG35515	82% 83% 68% 54%	786 617 537 676	667 489 490 614
HFTBB50	610015	933	blastx.2	collagen alpha 1(XVI) chain precursor - human	pir S23810 S23810	98% 51% 50% 50% 55% 50% 46% 50% 49% 49% 50% 47% 53% 48% 48% 49% 46%	492 492 492 492 492 492 492 492 492 492 492 492 492 492 492 492 492	325 331 334 337 337 331 331 337 337 337 337 331 331 337 325 331 334



46%	492	331
45%	492	331
50%	492	331
39%	1625	1347
46%	486	337
44%	486	337
44%	477	331
47%	492	370
36%	347	90
53%	347	270
48%	347	258
42%	1433	1272
31%	347	126
80%	347	303
71%	1433	1392
41%	374	123
52%	1433	1359
40%	1541	1392
54%	347	276
71%	1433	1392
34%	1502	1275
46%	347	258
29%	1625	1389
50%	1433	1356
37%	1433	1299
38%	1469	1320
30%	344	129
28%	1538	1287
45%	1433	1356
36%	1535	1347
64%	1433	1392
35%	1553	1380
40%	1535	1389
57%	1433	1380
52%	1433	1380
34%	1535	1347
46%	1433	1356

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HFXCL59	825713	959	blastx.2	WD-REPEAT PROTEIN 9 (FRAGMENT).	sp Q9NSI6 WDR9_HUMAN	43%	542	297
						98%	1020	397
						76%	397	59
						40%	1002	385
						77%	180	88
						29%	1026	415
						55%	149	3
						30%	391	182
						25%	960	418
HFXCS53	828903	962	blastx.2	CDNA FLJ13640 fis, clone PLACE1011221.	sp BAB14647 BAB14647	99%	1107	442
HFXDB37	569805	963	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	53%	1288	1115
						52%	1136	999
HFXDL76	821571	966	blastx.2	probable pol polyprotein- related protein 4 - rat	pir S21348 S21348	64%	1740	1519
						63%	1811	1746
						48%	1520	1446
HFXDP44	590269	969	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp O60448 O60448	55%	482	748
						57%	554	796
						73%	603	749
						65%	971	1108
						61%	971	1111
						44%	21	224
						42%	17	220
						44%	27	200
						68%	742	828
						37%	657	899
						46%	629	748
						35%	20	223
						56%	971	1039
						65%	738	806
						42%	566	670
						40%	1035	1115
						50%	1028	1114
						51%	18	116
						44%	651	827
						31%	852	1115
						47%	127	234

HFCDR08	621342	970	blastx.2	(AB055298) hypothetical protein [Macaca fascicularis]	dbj BAB21923.1	57%	145	201
HFCDR28	621300	971	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp BAB15056 BAB15056	53% 68% 73%	490 653 726	675 718 779
HFCDR28	873859	972	blastx.2	CDNA: FLJ22865 fis, clone KAT02171.	sp BAB15495 BAB15495	98%	853	314
HFCDR47	846477	973	blastx.2	PRO2550.	sp AAG35515 AAG35515	66% 75% 68% 33%	957 1072 956 1070	733 977 909 957
HFCDZ03	846323	974	blastx.2	L1 ELEMENT L1.33 P40.	sp O00376 O00376	39% 32% 41% 18% 24%	757 1065 528 1253 1161	521 739 328 834 877
HFCEE88	838822	976	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp Q9NX17 Q9NX17	56%	1310	1116
HFCDR32	534607	977	blastx.2	PRO1722.	sp Q9P195 Q9P195	70% 54%	24 223	218 288
HFCDGT51	638174	978	blastx.2	CDNA FLJ20378 FIS, CLONE KAI0536.	sp Q9NX85 Q9NX85	78% 74%	1232 1126	1107 989
HFCDHI33	874255	981	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	65%	1556	1263
HFCDHL21	581363	982	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp BAB15056 BAB15056	61%	1600	1358
HFCDHM93	858720	985	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp Q9NX17 Q9NX17	58% 70%	740 182	1021 9
HFCDHN89	786196	986	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp O60448 O60448	66% 67% 71% 59% 76% 64% 62%	1036 1045 1061 1208 1278 1287 1290	1332 1218 1219 1273 1316 1328 1337
HFCDJB21	743165	987	blastx.2	CDNA FLJ20489 FIS, CLONE	sp Q9NX17 Q9NX17	73%	1296	1003

HFXJN93	596815				KAT08285.		sp BAB15071 BAB15071	71%	1738	1568	1568
		988	blastx.2		CDNA: FLJ21463 fis, clone COL04765.			77%	1568		1437
HFXJS15	800866	989	blastx.2		(AF220017) tripartite motif protein TRIM2 [Mus musculus]		gb AAG53471.1 AF220017_1	97%	1		447
								32%	37		438
								34%	10		435
								32%	10		516
HFXJT53	823591	990	WUblastx.64		(AF156929) inflammatory response protein 6 [Sus scrofa]		gb AAF74525.1 AF156929_1	80%	111		1193
HFXKL60	895307	992	blastx.2		CDNA FLJ13078 fis, clone NT2RP3002002.		sp BAB14424 BAB14424	60%	1872		2090
								66%	1844		1888
HFXLG08	885514	993	blastx.2		Hypothetical 12.9 kDa protein.		sp BAB12124 BAB12124	60%	1303		1067
HFXLK91	827288	994	blastx.2		CDNA FLJ20623 FIS, CLONE KAT04793.		sp Q9NWT2 Q9NWT2	99%	3		827
HFXLM32	866446	995	blastx.2		Ovarian fibroin-like substance-1.		sp AAG25716 AAG25716	48%	29		700
								44%	29		715
								47%	29		715
								46%	29		703
								45%	29		703
								44%	38		700
								46%	29		667
								45%	68		700
								46%	26		655
								46%	26		616
								46%	302		700
								50%	17		304
HGBBR29	823106	997	blastx.2		EXPORTIN T.		sp O43592 O43592	100%	183		1118
HGBHE23	832303	1002	blastx.2		hypothetical protein DKFZp564N1362.1 - human (fragment)		pir T12479 T12479	100%	24		455
HGBHI15	608170	1003	blastx.2		UBQUITOUS TPR-MOTIF PROTEIN Y ISOFORM (FRAGMENT).		sp Q9NR08 Q9NR08	69%	559		395
								61%	642		565
HGLAH86	603525	1007	blastx.2		CDNA FLJ20489 FIS, CLONE KAT08285.		sp Q9NX17 Q9NX17	58%	848		618
HGLDA95	862035	1011	blastx.2		G20 PROTEIN.		sp Q9UK00 Q9UK00	60%	320		448
HHECR10	621371	1019	blastx.2		CDNA FLJ14310 fis, clone		sp BAB14900 BAB14900	64%	1011		766

HHHEMC55	566796	1020		PLACE3000271. NEURONAL THREAD PROTEIN AD7C-NTP.		sp O60448 O60448	62% 60% 70% 64% 63% 47% 44% 39% 43% 47% 50% 33% 65% 37% 48% 50% 42% 33% 80% 45%	1060 1032 606 605 1063 606 659 575 516 1063 896 662 656 416 579 915 976 1063 349 941	827 781 445 417 896 325 417 357 343 965 771 357 597 264 502 808 878 812 320 885
	821328	1023	blastx.2	PROTEIN INHIBITOR OF ACTIVATED STAT3.	blastx.2	sp Q9Y6X2 Q9Y6X2	98% 60%	302 75	931 308
	840026	1024	WUblastx.6 4	(AF217518) uncharacterized bone marrow protein BM042 [Homo sapiens]		gb AAAF67629.1 AAF21751 8_1	77%	845	1351
	709685	1026	blastx.2	(AP002460) gene_id:F1D9.26~unknown protein [Arabidopsis thaliana]		dbj BAA97098.1	97% 90% 94% 92% 94% 100% 100% 100% 100% 100%	982 983 977 978 976 983 982 982 983 982 983	1098 1108 1093 1094 1092 1093 1092 1092 1093 1092 1093

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Figure	Figure	Figure	Figure	Figure	Figure	Figure	Figure	Figure	Figure
Figure 1	Figure 2	Figure 3	Figure 4	Figure 5	Figure 6	Figure 7	Figure 8	Figure 9	Figure 10

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Case	Age	Sex	Duration	Location	Findings	Comments
1	25	M	10 years	Right eye	Small, well-circumscribed, pigmented lesion	Benign melanocytic nevus
2	35	F	5 years	Left eye	Large, irregular, pigmented lesion	Malignant melanoma
3	45	M	2 years	Right eye	Small, well-circumscribed, pigmented lesion	Benign melanocytic nevus
4	55	F	15 years	Left eye	Large, irregular, pigmented lesion	Malignant melanoma
5	65	M	8 years	Right eye	Small, well-circumscribed, pigmented lesion	Benign melanocytic nevus
6	75	F	3 years	Left eye	Large, irregular, pigmented lesion	Malignant melanoma
7	85	M	12 years	Right eye	Small, well-circumscribed, pigmented lesion	Benign melanocytic nevus
8	95	F	7 years	Left eye	Large, irregular, pigmented lesion	Malignant melanoma

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HHEPE72	621254	1031	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	77% 70% 54%	238 238 1100	330 321 1165
HHEPE81	840614	1032	blastx.2	RANBP7/IMPORTIN 7.	sp O95373 O95373	99%	3	389
HHEPM64	844953	1033	blastx.2	SERINE-ARGININE-RICH SPLICING REGULATORY PROTEIN SRRP86.	sp Q9JKL7 Q9JKL7	57%	14	187
HHEQY60	799535	1035	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp O60448 O60448	65% 62% 68% 68% 85% 58% 81% 60%	731 731 703 568 498 489 471 500	429 555 566 503 457 439 439 432
HHFEB79	863749	2603	WUblastx.6 4	Similar to a C.elegans protein encoded in cosmid C27F2 (U40419) [Homo sapiens]	dbj BAA13387.1	69% 80%	1303 601	2400 1185
HHFEN34	701992	1043	blastx.2	CDNA FLJ20378 FIS, CLONE KAIA0536.	sp Q9NX85 Q9NX85	62% 68% 40%	953 795 808	789 691 668
HHFFZ01	847388	1044	blastx.2	CDNA: FLJ21676 fis, clone COL09164.	sp BAB15113 BAB15113	84% 100%	915 772	1820 1080
HHFGI71	663531	1045	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	dbj BAB21918.1	73% 75%	1159 1424	1272 1269
HHFGI54	731870	1046	blastx.2	CDNA FLJ13099 fis, clone NT2RP3002248.	sp BAB14438 BAB14438	96% 99%	510 1232	1259 1645
HHFGL38	833063	1047	blastx.2	PRO2550.	sp AAG35515 AAG35515	56%	2764	2465
HHFGZ23	721653	1049	blastx.2	hypothetical protein 3 - human	pir E41925 E41925	64%	978	1136
HHFHG26	608250	1050	blastx.2	FLJ00047 protein (Fragment).	sp BAB15745 BAB15745	66%	724	578
HHFHM47	638181	1051	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp O60448 O60448	56% 55% 62% 72% 76%	859 850 804 681 680	497 671 670 616 618

HHGAA76	767745	1052	blastx.2	ORF2-LIKE PROTEIN (FRAGMENT).	sp O00549 O00549	54% 84% 44% 75%	101 611 110 100	3 573 3 65
HHGAD46	812646	1053	blastx.2	BK65A6.2 (NOVEL SUSHI DOMAIN (SCR REPEAT) CONTAINING PROTEIN 1	sp Q9UGT4 Q9UGT4	57% 74% 70% 70% 68%	888 1455 1022 1156 59	409 1294 870 1025 3
HHGBC21	840455	1055	blastx.2	CDNA: FLJ21394 fis, clone COL03536.	sp BAB15056 BAB15056	98% 83%	148 3	783 203
HHGBW55	638183	1059	blastx.2	hypothetical protein [imported] - human	pir T50835 T50835	97%	3	143
HHGDI12	747680	1063	blastx.2	POSSIBLE (HHV-6) U1102, VARIANT A DNA, COMPLETE VIRION 1	sp Q9N8S9 Q9N8S9	67% 72%	1239 1240	1120 1112
HHGDR05	610266	1064	blastx.2	CDNA FLJ11786 fis, clone HEMBA1006036.	sp BAB13911 BAB13911	63%	821	690
HHGDR92	840454	1065	blastx.2	PROTEIN CGI-51.	sp Q9Y512 CG51_HUM AN	99%	10	1104
HHGDS56	663379	1066	blastx.2	PRO0898.	sp AAG35479 AAG35479	60%	1482	1207
HHGDW65	825652	1067	blastx.2	UNNAMED PORTEIN PRODUCT.	sp Q9N083 Q9N083	58%	809	510
HHPDE28	877640	1071	blastx.2	CDNA: FLJ22673 fis, clone HS110503.	sp BAB15447 BAB15447	98%	393	596
HHPEB61	658693	1075	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	62% 60% 38%	607 777 551	804 920 712
HHPPF26	753269	1076	blastx.2	CDNA FLJ12799 fis, clone NT2RP2002078, weakly similar to 1	sp BAB14277 BAB14277	100%	987	1742
HHPFS11	570807	1077	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	50%	402	587

HHF18	829347	1079	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp Q9NX17 Q9NX17	68%	2600	2430
HHPGH34	535780	1080	blastx.2	PRO1902 PROTEIN.	sp Q9UHT1 Q9UHT1	68% 65%	964 1023	833 964
HHPGU74	821486	1081	blastx.2	histidine-rich protein - Plasmodium lophurae (fragment)	pir A54523 A54523	57% 56% 56% 72% 74% 74% 74% 73% 73% 73% 62% 72% 72% 72% 60% 72%	2112 2112 2112 2112 2112 2112 2112 2112 2112 2112 2112 2112 2112 2112 2112 2112	2017 2017 2017 2038 2038 2038 2038 2041 2041 2032 2038 2038 2038 2038 2032 2038
HHPGU87	658694	1082	blastx.2	3',5'-cyclic-nucleotide phosphodiesterase (EC 3.1.4.17) 8A, 1	pir JW0088 JW0088	100%	1050	1286
HHPSH74	638185	1087	blastx.2	HISTONE DEACETYLASE 6 (HD6).	sp Q9UBN7 HDA6_HUMAN	88% 74% 99% 81% 54% 45% 53% 30% 43%	734 1104 10 525 10 794 323 755 1920	1339 1730 321 770 321 1306 571 1102 1967
HHPTF26	857654	1090	blastx.2	(AB055293) hypothetical protein [Macaca fascicularis]	dbj BAB21918.1	66%	1024	752
HHSAG74	839473	1092	blastx.2	PRO1546.	sp Q9P1J1 Q9P1J1	87% 84%	588 451	442 335
HHSAG62	847392	1093	blastx.2	CDNA FLJ13898 fis, clone	sp BAB14741 BAB14741	99%	600	1070

HHADB43	812510	1100	HMMER 2.1.1 blastx.2	THYRO1001738, weakly similar to 1 PFAM: Zinc finger, C2H2 type	PF00096	99% 100% 117.4	2 533 877	460 604 945
HHSDL07	899430	1101	blastx.2	hypothetical protein DKFZp434H0127.1 - human (fragment)	pir T42688 T42688	99%	25	1344
HHSDX07	847393	1102	blastx.2	C380A1.2.1 (NOVEL PROTEIN (ISOFORM 1)).	sp Q9UJH9 Q9UJH9	100%	9	317
HIABC70	838605	1107	blastx.2	CDNA FLJ10814 FIS, CLONE NT2RP4000984.	sp Q9NVC4 Q9NVC4	95% 92%	434 3	1066 512
HIBCO70	853360	1109	HMMER 2.1.1 blastx.2	APOLIPROTEIN B48 RECEPTOR.	sp Q9NPJ9 Q9NPJ9	100%	15	1160
HIBDA41	603909	1111	blastx.2	PFAM: Myelin proteolipid protein (PLP or lipophilin)	PF01275	32.3	127	192
HIBEC45	822854	1112	blastx.2	CDNA: FLJ22206 fis, clone HRC01431 (Fragment).	sp BAB15260 BAB15260	99%	299	1651
HILBW03	841377	1113	blastx.2	PRO2550. (AB055293) hypothetical protein [Macaca fascicularis]	sp AAG35515 AAG35515	80% 58%	404 975	697 1283
HISAE16	845233	1114	blastx.2	CDNA FLJ10546 FIS, CLONE NT2RP2001721.	sp Q9NVS4 Q9NVS4	97%	654	1163
HISAG53	843902	1115	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	85%	7	90
HISAN63	797658	1116	blastx.2	(AL121845) dJ583P15.3 (novel protein) [Homo sapiens]	emb CAC03670.1	98% 71%	127 84	1614 152
HISAT78	840961	1117	blastx.2	PUTATIVE P150. (AL034548) dJ1103G7.7 (PUTATIVE novel protein) [Homo sapiens]	sp O00363 O00363	35% 30% 30% 87%	716 1609 1299 1527	384 1280 1045 1504
HISBA38	561711	1118	blastx.2	CDNA FLJ20489 FIS, CLONE	emb CAB81631.1	86% 46% 97% 66% 37%	271 15 13 155 538	615 743 114 280 615
					sp Q9NX17 Q9NX17	48%	1055	678

HISBB66	839808	1119	blastx.2	KAT08285. POTENTIAL TRANSCRIPTIONAL REPRESSOR NOT4HP.	sp O95627 O95627	98%	2	451
HISEJ52	886777	1123	blastx.2	CALCINEURIN-BINDING PROTEIN CABIN 1 (CALCINEURIN 1	sp Q9Y6J0 CABI_HUMA N	99%	480	1697
HJABC58	753272	1124	blastx.2	PRO2550.	sp AAG35515 AAG35515	58% 88% 76%	1232 993 1060	1059 943 998
HJABS31	825607	1127	blastx.2	(AY009109) ring-H2 protein [Homo sapiens]	gb AAG49400.1	98%	1	1221
HJACE25	835517	1129	blastx.2	RNA POLYMERASE II TERMINATION FACTOR.	sp O75921 O75921	91% 95%	64 381	390 662
HJACK21	664506	1130	blastx.2	CG3138 PROTEIN.	sp Q9W488 Q9W488	46% 56%	533 12	1114 530
HJBCG74	839361	1131	blastx.2	MULTIPLE INOSITOL POLYPHOSPHATE PHOSPHATASE.	sp Q9UNW1 Q9UNW1	99% 100%	560 33	1492 560
HJBCO21	695727	1132	blastx.2	HSPC024-ISO.	sp Q9Y6E5 Q9Y6E5	99%	9	491
HJBCQ40	831119	1133	blastx.2	CDNA FLJ12893 fis, clone NT2RP2004165.	sp BAB14330 BAB14330	44% 31% 33% 40%	553 133 217 343	780 573 429 468
HJBDM36	773168	1134	blastx.2	SNARE PROTEIN YKT6.	sp O15498 O15498	100%	127	720
HJMAZ60	844796	1137	blastx.2	CG5276 PROTEIN.	sp Q9VGN8 Q9VGN8	53%	110	1054
HJMBB20	824264	1138	blastx.2	(AF327434) glutaminase [Homo sapiens]	gb AAG47842.1 AF32743 4_1	99%	3	383
HJMBB20	842673	1139	blastx.2	GLUTAMINASE, KIDNEY ISOFORM, MITOCHONDRIAL PRECURSOR (EC 1	sp O94925 GLSK_HUM AN	100%	4	1317
HJMBB20	844890	1140	blastx.2	GLUTAMINASE, KIDNEY ISOFORM, MITOCHONDRIAL PRECURSOR (EC 1	sp O94925 GLSK_HUM AN	100%	4	1317

HJMBK59	664490	1141	blastx.2	DYNACTIN SUBUNIT.	sp O75935 O75935	100%	2	286
HJMBP01	638190	1142	blastx.2	PROTEIN HSPC163.	sp Q9P003 H163_HUMA N	100%	13	174
HJPAF69	589794	1146	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp Q9NX17 Q9NX17	70%	216	395
HJPAQ19	566832	1147	blastx.2	hypothetical protein DKFZp564O092.1 - human (fragment)	pir T08694 T08694	70%	439	531
HJPAZ35	845379	1148	blastx.2	HSPC025.	sp Q9Y262 Q9Y262	100%	9	920
HJPB177	602875	1149	blastx.2	CG10155 PROTEIN.	sp Q9V756 Q9V756	42%	54	1745
HJPBN96	610087	1150	blastx.2	CDNA FLJ20500 FIS, CLONE KAT09159.	sp Q9NX09 Q9NX09	100%	16	249
HJPBU47	824063	1151	blastx.2	8D6 ANTIGEN (FRAGMENT).	sp Q9NPM0 Q9NPM0	100%	106	288
HJPDK61	844034	1154	blastx.2	CG8311 PROTEIN.	sp Q9V7R7 Q9V7R7	92%	70	108
HKABI53	805966	1155	blastx.2	CC3 (CC3).	sp O15383 O15383	100%	329	844
HKABN63	566840	1156	blastx.2	hypothetical protein F10M10.130 - Arabidopsis thaliana	pir T04782 T04782	77%	240	377
HKACA25	824087	1157	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	73%	315	380
HKACO64	897591	1158	blastx.2	UNNAMED PORTEIN PRODUCT.	sp Q9N083 Q9N083	46%	261	329
HKACX90	604042	1160	blastx.2	CG15525 PROTEIN.	sp Q9VAC7 Q9VAC7	50%	272	577
HKADI27	1028177	1161	WUblastx.6 4	(AF023657) endo-alpha-D- mannosidase [Rattus norvegicus]	gb AAB86925.1	42%	115	234
HKADN26	802131	1162	blastx.2	(AY012159) virion-associated nuclear-shuttling protein [Mus]	gb AAG42155.1	60%	1268	1573
						63%		
						42%	1153	950
						60%	730	593
						46%	893	804
						44%	803	750
						32%	966	820
						46%	31	486
						65%	302	562
						51%	531	602
						87%	574	1512
						85%	47	148
						58%	289	324

HKADT55	668243	1164	blastx.2	musculus] (AJ289772) RNA binding motif protein 12 [Homo sapiens]	emb CAC20441.1	99%	13	708
HKA EK58	695729	1165	HMMER 2.1.1	PFAM: Acyl-CoA dehydrogenase	PF00441	449.8	160	1269
			blastx.2	ACYL-COENZYME A DEHYDROGENASE-8 PRECURSOR (CDNA FLJ20352 FIS, CLONE HEP14524).	sp Q9UKU7 Q9UKU7	99% 100%	112 39	1284 113
HKA EK72	840457	1166	HMMER 2.1.1	PFAM: Sugar (and other) transporter	PF00083	70.8	270	575
HKA EK72	840457	1166	blastx.2	SUGAR TRANSPORTER (GLUCOSE TRANSPORTER 9).	sp Q9UGQ3 Q9UGQ3	99%	9	602
			blastx.2	(AL035669) dJ885L7.6 (transcription factor-like 5 (basic helix-loop-helix)) [Homo sapiens]	emb CAC12752.1	97%	3	896
HKA HH71	846826	1169	blastx.2	CG7950 PROTEIN.	sp Q9VAA6 Q9VAA6	53%	31	378
HKA KU90	838608	1171	blastx.2	(AF197954) adenocarcinoma antigen ART1 [Homo sapiens]	gb AAG28523.1 AF19795 4_1	98%	19	1251
HKFAA15	753275	1173	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	71% 80%	1768 1596	1580 1471
			blastx.2	PRO2550.	sp AAG35515 AAG35515	70% 81% 37%	641 445 1327	429 335 1166
HKG AJ81	581063	1176	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	75%	2111	1815
HKG AK45	809093	1177	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp Q9NX85 Q9NX85	68% 72% 59%	946 770 1903	767 639 1838
HKG AP57	841627	1179	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp BAB15071 BAB15071	71% 68%	1622 1458	1431 1327
HKG AW41	858745	1180	blastx.2	CDNA: FLJ21463 fis, clone COL04765.	sp O00371 O00371	54% 30%	1279 810	1731 1073
HKG BA21	822870	1181	blastx.2	L1 ELEMENT L1.21 P40 PROTEIN.				

HKGBC33	823368	1182	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp Q9NX17 Q9NX17	31%	1358	1783
HKGBC73	608169	1183	blastx.2	PRO2852.	sp AAG335505 AAG335505	70%	1755	1784
HKGBF61	658697	1184	blastx.2	NEURONAL THREAD PROTEIN AD7C-NTP.	sp O60448 O60448	77%	1032	724
						87%	1036	1013
						76%	8	124
						63%	1160	981
						42%	1285	1037
						66%	1135	980
						44%	1715	1524
						50%	1758	1540
						56%	1160	1038
						43%	193	14
						65%	1023	928
						47%	1685	1554
						51%	1676	1542
						42%	1195	1019
						52%	1139	1065
						80%	1176	1132
						41%	1758	1657
						62%	61	14
						44%	975	901
						57%	66	16
						80%	978	949
HKGBH54	588482	1185	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp Q9NX17 Q9NX17	61%	2107	1907
HKGBP52	899282	1186	blastx.2	CDNA FLJ20378 FIS, CLONE KAI0536.	sp Q9NX85 Q9NX85	68%	2220	2086
HKGCE62	638200	1188	blastx.2	UNNAMED PORTEIN PRODUCT.	sp Q9N083 Q9N083	76%	1726	1556
HKGCK41	559327	1189	blastx.2	MIB001 PROTEIN.	sp Q9NQ89 Q9NQ89	68%	1562	1440
HKGCK41	795256	1190	blastx.2	MIB001 PROTEIN.	sp Q9NQ89 Q9NQ89	60%	1157	984
HKGDA95	581064	1193	blastx.2	BA108L7.7 (NOVEL PROTEIN SIMILAR TO C. ELEGANS C25A1.13 1	sp Q9NTP0 Q9NTP0	69%	994	857
						100%	20	613
						100%	31	621
						99%	77	667
HKGDO12	857225	1194	blastx.2	CDNA FLJ20489 FIS, CLONE KAT08285.	sp Q9NX17 Q9NX17	39%	366	713
						78%	1461	1222
						57%	1220	1143

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